Elementary algebra for college students answers

Continue

Elementary Algebra Worksheet
Balancing Equations
Division

NAME _____

1. 22 ÷ 2 = 11 ÷ _____
2. 48 ÷ 6 = 64 ÷ _____
3. 34 ÷ 2 = 51 ÷ _____
4. 16 ÷ 4 = _____ ÷ 2
5. 35 ÷ 7 = 40 ÷ _____
6. 24 ÷ 4 = _____ ÷ 3
7. 25 ÷ 5 = _____ ÷ 11
8. 21 ÷ 3 = _____ ÷ 6
9. _____ ÷ 4 = 34 ÷ 2
10. 24 ÷ _____ = 32 ÷ 8
11. _____ ÷ 3 = 72 ÷ 8
12. 24 ÷ _____ = 18 ÷ 3
13. _____ ÷ 4 = 22 ÷ 2
14. 90 ÷ 3 = _____ ÷ 9
15. _____ ÷ 5 = 45 ÷ 9
16. 18 ÷ 3 = _____ ÷ 7

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Find the greatest common factor.

5. x^7, x^3 **6.** y^6, y^{12} **7.** x^2y^4, xy^6 **8.** a^5b^3, a^3b^8

9. $x^5y^4z^6, xy^8z^2$ **10.** ab^2c^3, a^3b^2c **11.** $14a^3, 49a^7$ **12.** $12y^2, 27y^4$

13. $3x^2y^2, 5ab^2$ **14.** $8x^2y^3, 7ab^4$ **15.** $9a^2b^4, 24a^4b^2$ **16.** $15a^4b^2, 9ab^3$

17. $ab^3, 4a^2b, 12a^2b^3$ **18.** $12x^2y, x^4y, 16x$ **19.** $2x^2y, 4xy, 8x$

20. $16x^2, 8x^4y^2, 12xy$ **21.** $3x^2y^2, 6x, 9x^3y^3$ **22.** $4a^2b^3, 8a^3, 12ab^4$

Factor.

23. $5a + 5$ **24.** $7b - 7$ **25.** $16 - 8a^2$ **26.** $12 + 12y^2$

27. $8x + 12$ **28.** $16a - 24$ **29.** $30a - 6$ **30.** $20b + 5$

31. $7x^2 - 3x$ **32.** $12y^2 - 5y$ **33.** $3a^2 + 5a^5$ **34.** $9x - 5x^2$

35. $14y^2 + 11y$ **36.** $6b^3 - 5b^2$ **37.** $2x^4 - 4x$ **38.** $3y^4 - 9y$

39. $10x^4 - 12x^2$ **40.** $12a^5 - 32a^2$ **41.** $x^2y - xy^3$ **42.** $a^2b + a^4b^2$

43. $2a^3b + 3xy^3$ **44.** $5x^2y - 7ab^3$ **45.** $6a^2b^3 - 12b^2$ **46.** $8x^2y^3 - 4x^2$

47. $6a^2bc + 4ab^2c$ **48.** $10x^2yz^2 + 15xy^3z$ **49.** $18x^2y^2 - 9a^2b^2$ **50.** $9a^2x - 27a^3x^3$

51. $6x^3y^3 - 12x^6y^6$ **52.** $3a^2b^2 - 12a^5b^5$ **53.** $x^3 - 3x^2 - x$ **54.** $a^3 + 4a^2 + 8a$

55. $2x^2 + 8x - 12$ **56.** $a^3 - 3a^2 + 5a$ **57.** $b^3 - 5b^2 - 7b$ **58.** $5x^2 - 15x + 35$

59. $8y^2 - 12y + 32$ **60.** $3x^3 + 6x^2 + 9x$ **61.** $5y^3 - 20y^2 + 10y$ **62.** $2x^4 - 4x^3 + 6x^2$

63. $3y^4 - 9y^3 - 6y^2$ **64.** $2x^3 + 6x^2 - 14x$ **65.** $3y^3 - 9y^2 + 24y$ **66.** $2y^5 - 3y^4 + 7y^3$

Extra practice for Ch 2

(6) A) 4 B) -4 C) $+\infty$ D) $-\infty$

More on limits, continuity, and differentiability

(1) $R(t)$ is not continuous at $t=0$
It is not removable. (

(2) Similar to #4 in the previous section

(3) $A = 0$
$B = 0.9$

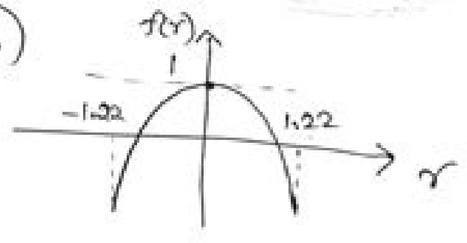
(4) $f(r) = -2|r| + \sqrt{1-4r^2+4|r|}$

(B) $r>0$ $r<0$

$f(r) = -2r + \sqrt{1-4r^2+4r}$

$f(r) = -2(-r) + \sqrt{1-4r^2-4r}$

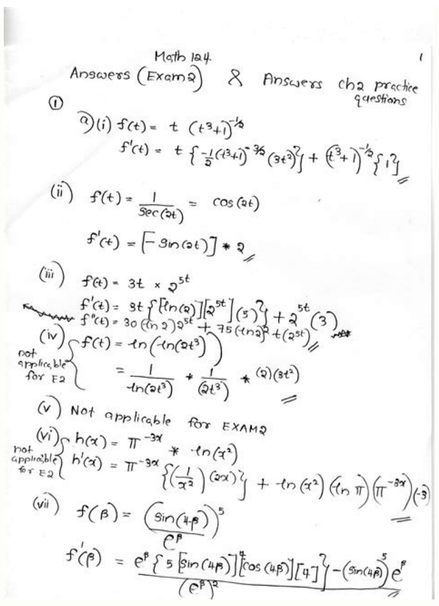
(A)



window
$(-2.5, 2.5) \times (-2.5, 2.5)$

Draw the tangent line at $(0,1)$
$\boxed{y=1}$

left hand slope of ◉ at $r=0$ = right hand slope at $r=0$
↳ $f(r)$ is differentiable at $r=0$



Math 104. 1

Answers (Exam 2) & Answers ch2 practice questions

① 2)(i) $f(t) = t\,(t^3+1)^{-1/5}$

$f'(t) = t\left\{-\frac{1}{5}(t^3+1)^{-6/5}(3t^2)\right\} + (t^3+1)^{-1/5}\{1\}$

(ii) $f(t) = \frac{1}{\sec(2t)} = \cos(2t)$

$f'(t) = [-\sin(2t)] * 2$

(iii) $f(t) = 3t \times 2^{5t}$

$f'(t) = 3t\{[\ln(2)][2^{5t}](5)\} + 2^{5t}(3)$

$f'(t) = 30(\ln 2)2^{5t} + 3\ln(2)2^{5t}$

(iv) $f(t) = \ln(-\ln(2t^3))$

not applicable for E2

$= \frac{1}{-\ln(2t^3)} * \frac{1}{(2t^3)} * (2)(3t^2)$

(v) Not applicable for EXAM 2

(vi) $h(x) = \pi^{-3x} * \ln(x^2)$

not applicable for E2

$h'(x) = \pi^{-3x}\left\{\left(\frac{1}{x^2}\right)(2x)\right\} + \ln(x^2)(\ln \pi)(\pi^{-3x})(-3)$

(vii) $f(\beta) = \frac{(\sin(4\beta))^5}{e^\beta}$

$f'(\beta) = \frac{e^\beta\{5[\sin(4\beta)]^4[\cos(4\beta)][4]\} - (\sin(4\beta))^5 e^\beta}{(e^\beta)^2}$

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− 3 (9 + (−16)) + 4 ; − 3 1.116 (−8 + (−12)) + 7 ; − 13 (−8 + (−12)) + 7 ; − 13 1.117 14−(−23);3714−(−23);37 −17−21;−38−17−21;−38 1.118 11−(−19);3011−(−19);30 −11−18;−29−11−18;−29 1.119 −5 (12) ; − 60 −5 (12) ; − 60 1.120 8 (−13) ; − 104 8 (−13) ; − 104 1.121 −63 ÷ (−9) ; 7 −63 ÷ (−9) ; 7 1.122 −72 ÷ (−9) ; 8 −72 ÷ (−9) ; 8 1.123 The difference in temperatures was 45 degrees. 1.124 The difference in temperatures was 9 degrees. 1.125 The Bears lost 105 yards. 1.126 A $16 fee was deducted from his checking account. 1.127 610,915,1220;610,915,1220; answers may vary 1.128 810,1215,1620;810,1215,1620; answers may vary 1.151 1.165 1.166 1.167 27a−323627a−3236 2a32a3 1.168 24k−53024k−530 2k152k15 1.181 1.182 1.183 negative thirteen and four hundred sixty-one thousandths 1.184 negative two and fifty-three thousandths 1.190 1.197 1.198 1.211 1.212 1.213 1.214 1.219 −241−241 357100357100 1.220 −191−191 841100841100 1.221 0.29,0.816– 0.29,0.816– 2.515115111...2.515115111... 1.222 2.63–,0.1252.63–,0.125 0.418302...0.418302... 1.223 1.224 1.225 not a real number real number 1.226 real number not a real number 1.227 4,494,49 −3,4,49−3,4,49 −3,0.3–,95,4,49−3,0.3–,95,4,49 −2−2 −3,−2,0.3–,95,4,49−3,−2,0.3–,95,4,49 1.228 6,1216,121 −25,−1,6,121−25,−1,6,121 −25,−38,−1,6,121−25,−38,−1,6,121 2.041975...2.041975... −25,−38,−1,6,121,2.041975...−25,−38,−1,6,121,2.041975... 1.229 1.230 1.233 1.234 1.235 1.236 1.243 1.244 1.249 −79−79 −1.2−1.2 1414 9494 1.250 −713−713 −8.4−8.4 4646 5252 1.251 1.252 1.253 1.254 1.261 1.262 1.267 1.269 1.270 1.271 1.272 1.287 8 lbs . 15 oz 8 lbs . 15 oz 1.295 0.725 kiloliters 6,300 milliliters 1.296 35,000 liters 410 centiliters 1. thousands hundreds tens ten thousands ones 3. ones ten thousands hundred thousands tens hundreds 5. ten millions ten thousands tens thousands millions 7. trillions billions millions tens thousands 9. one thousand, seventy-eight 11. three hundred sixty-four thousand, five hundred ten 13. five million, eight hundred forty-six thousand, one hundred three 15. thirty-seven million, eight hundred eighty-nine thousand, five 33. 392,500 393,000 390,000 35. 2,587,000 2,587,000 2,590,000 37. 41. divisible by 2, 3, 5, 6, and 10 45. divisible by 2, 5, and 10 51. 2 · 2 · 3 · 11 2 · 2 · 3 · 11 53. 3 · 3 · 7 · 11 3 · 3 · 7 · 11 55. 2 · 2 · 2 · 2 · 3 · 3 · 3 2 · 2 · 2 · 2 · 3 · 3 · 3 57. 2 · 2 · 2 · 2 · 3 · 3 · 3 · 5 2 · 2 · 2 · 2 · 3 · 3 · 3 · 5 71. twenty-four thousand, four hundred ninety-three dollars 73. $24,490 $24,500 $24,000 $20,000 75. 1,000,000,000 1,300,000,000 1,340,000,000 83. 16 minus 9, the difference of sixteen and nine 85. 28 divided by 4, the quotient of twenty-eight and four 87. 2 times 7, the product of two and seven 89. fourteen is less than twenty-one 91. thirty-six is greater than or equal to nineteen 93. y minus 1 is greater than 6, the difference of y and one is greater than six 95. 2 is less than or equal to 18 divided by 6; 2 is less than or equal to the quotient of eighteen and six 145. x 3 and 8 x 3 , 14 and 5 x 3 and 8 x 3 , 14 and 5 147. 16 and 4 , 16 b 2 and 9 b 2 16 and 4 , 16 b 2 and 9 b 2 149. 15 x 2 , 6 x , 2 15 x 2 , 6 x , 2 151. 10 y 3 , y , 2 10 y 3 , y , 2 161. 17 x 2 + 20 x + 16 17 x 2 + 20 x + 16 173. 255. 20,320 feet −282 feet 257. $540 million −$27−$27 billion 315. (3 + (−15)) + 7 ; − 5 (3 + (−15)) + 7 ; − 5 317. 10 − (−18) ; 28 10 − (−18) ; 28 319. −5 − (−30) ; 25 −5 − (−30) ; 25 321. −3 · 15 ; − 45 −3 · 15 ; − 45 323. −60 ÷ (−20) ; 3 −60 ÷ (−20) ; 3 327. −10 (p − q) −10 (p − q) 343. 616,924,1232616,924,1232 answers may vary 345. 1018,1527,20361018,1527,2036 answers may vary 417. (2)(34);32(2)(34);32 cups answers will vary 477. 479. 483. 25n1625n16 25n−163025n−1630 491. −28 − 15 y 60 −28 − 15 y 60 539. 541. eight and seventy-one hundredths 545. negative seventeen and nine tenths 649. $58,966 $59,000 $60,000 671. 673. −121−121 92971000929710 00 675. 0.75,0.223–0.75,0.223– 1.39174...1.39174... 677. 0.45–,3.590.45–,3.59 1.919293...1.919293... 679. 681. 683. real number not a real number 685. not a real number real number 687. 0,36,90,36,9 −8,0,36,9−8,0,36,9 −8,0,125,36,9−8,0,125,36,9 1.95286...1.95286... −8,0,1.95286...,125,36,9−8,0,1.95286...,125,36,9 689. none −100,−7,−1−100,−7,−1 −100,−7,−83,−1,0.77,314−100,−7,−83,−1,0.77,314 none −100,−7,−83,−1,0.77,314−100,−7,−83,−1,0.77,314 691. 693. 695. 697. 707. 709. 719. 4 busses answers may vary answers may vary 745. 27 m + (−21 n) 27 m + (−21 n) 747. 5 4 g + 1 2 h 5 4 g + 1 2 h 749. 2.43 p + 8.26 q 2.43 p + 8.26 q 751. −25−25 −4.3−4.3 8 103103 753. 7676 0.075 −23−23 −14−14 755. 757. 12111211 −1011−1011 −14−14 791. 803. 817. $80 $80 answers will vary 819. $23.88 no, the price is the same 913. tens ten thousands hundreds ones thousands 915. ten millions tens hundred thousands millions ten thousands 917. six thousand, one hundred four 919. three million, nine hundred seventy-five thousand, two hundred eighty-four 923. 925. 927. 865,000865,000 865,000865,000 860,000860,000 929. by 2 , 3 , 6 by 2 , 3 , 6 939. 949. 25 minus 7, the difference of twenty-five and seven 951. 45 divided by 5, the quotient of forty-five and five 953. forty-two is greater than or equal to twenty-seven 955. 3 is less than or equal to 20 divided by 4, three is less than or equal to the quotient of twenty and four 975. 12and3,n2and3n212and3,n2and3n2 1059. (−4 + (−17)) + 32 ; 11 (−4 + (−17)) + 32 ; 11 1061. 1065. 28,312,41628,312,416 answers may vary 1067. 1012,1518,20241012,1518,2024 answers may vary 1153. 1159. 1213. 1215. 0.84,1.3–0.84,1.3– 0.79132...,0.79132..., 1217. 1219. not a real number real number 1221. 0,160,16 −4,0,16−4,0,16 −4,0,56,16−4,0,56,16 18,5.2537... 18,5.2537... −4,0,56,16,18,5.2537...−4,0,56,16,18,5.2537... 1223. 1225. 1231. 1233. 1251. −13−13 −5.1−5.1 14 8585 1253.

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