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Precalculus unit 2 test answers

2.1 Linear functions1. m= 4-3 0-2 = 1 -2 =- 1 2 m= 4-3 0-2 = 1 -2 =- 1 2 ; Decline due to m<0. &0. 2.m= 1,868-1,442 2,012-2,009 = 426 3 = 142 people per year = 1,868-1,442 2,012-2,009 = 426 3 = 142 people per year 3. y-2=-2(x+2) y-2=-2(x+2) : y=-2x-2 y=-2x-2 4. y-0=-3(x-0) y-0=-3(x-0) ; y=-3x y=-3x 6. H(x)=0.5x+12.5 H(x)=0.5x+12.5 2.2 graph linear functions1. 2. Possible responses include (-3,7), (-3,7), (-6,9), (-6,9), or (-9,11), (-9,11). 3. 5. f(x)=2x f(x)=2x ; g(x)=- 1 2 x g(x)=- 1 2 x 7. (0,5) (0,5) (5, 0)(5, 0) Slope -1 neither parallel nor perpendicular to the diminished function according to the identity function, perform a vertical flip (over the t axis) and change to above 5 units. 2.3 Modeling with linear functions1. C(x)=0.25x+25,000 C(x)=0.25x+25,000 is y interception (0,25,000), (0,25,000). If the company does not produce one, they still incur a cost of \$25,000. 2.4 Connect linear models to Data2. 150.871 billion gallons; extrapolation 1. Terry starts at 30 feet and lands 70 feet per second. 5. d(t)=100-10t d(t)=100-10t 31. 41. 47. Linear, g(x)=-3x+5g(x)=-3x+5 49. Linear, f(x)=5x-5f(x)=5x-5 51. Linear, g(x)=-252x+6g(x)=-252x+6 53. Linear, f(x)=10x-24f(x)=10x-24 55. f(x)=-58x+17.3 f(x)=-58x+17.3 57. 59. a. a=11,900a=11,900; b=1001.1b=1001.1 b. q(p)=1000p-100q(p)=1000p-100 61. 67. y=dc-ax-adc-ay=dc-ax-adc-a 69. \$45 per training session. 71. Change rate is 0.1. For every extra minute spoken, the monthly cost increases by 0.1 or 10 cents. The initial value is 24. When no minutes are spoken, the charge is initially \$24. 73. Slope is -400.-400. This means that for every year between 1960 and 1989, the population in the city declined by 400 people a year. 1. Domains are equal; 3- The intersection point is (a,a), (a,a). This is because for the horizontal line, all coordinates are y aa and for the vertical line, all coordinates are xx a.a. The intersection point will have these two features. 5. First find the slope of the linear function. Then cross-negatively tilt; Replace the slope of the perpendicular line and the coordinates of the given point to the equation y=mx+by=mx+b, and for b.b. then type the line equation as y=mx+by=mx+b by replacing in mm and b.b 7. Not parallel and perpendicular to 13. (-2, 0) (-2, 0); (0, 4) (0, 4) 15. (15, 0) (15, 0); (0, 1) (0, 1) 17. (8, 0) (8, 0); (0, 28) (0, 28) 19. Line 1:m=8Line 2:m=-6Neither Line 1:m=8Line 2:m=-6Neither 21. Line 1:m=- 1 2 Line 2:m=2Perpendicular Line 1:m=- 1 2 Line 2:m=2Perpendicular 23. Line 1:m=-2Line 2:m=-2Parallel 27. 39. 41. 43. 45. 47. 49. 51. 53. 55. 57. 59. g(x)=0.75x-5.5g(x)=0.75x-5.5 ; 0.75; (0,-5.5) (0,-5.5) 65. 73. x< 1999 201 x> 1999 201 x< 1999 201 x> 1999 201 1. Specify the independent variable. This is the variable on which the output depends.3. To determine the initial value, find the output when the input is equal to zero.13. P(t)=75,000+2,500t P(t)=75,000+2,500t 15. (-30, 0) Thirty years before this model began, the town had no citizens. (0, 75,000) Initially the town had a population of 75,017. Ten years after starting the model .19. W(t)=0.5t+7.5 W(t)=0.5t+7.5 21. (-15,0) (-15,0); X-Tracking is not an acceptable set of data for this model because it means the baby weighs 0 pounds 15 months before birth. (0, 7.5) (0, 7.5) ; Baby weight 7.5 pounds at birth.25. C(t)=12,025-205t C(t)=12,025-205t 27. (58.7, 0) (58.7, 0) In about 59 years, the number of people entering with common colds will be 0. (0,12,025) (0,12,025); Initially 12,025 people had common colds.33. In 2070, the company's profit will be zero.37. (10, 0) In 1990, it earned zero profits.45. 696 patients aged 4 years 174 in 305 persons P(0)=305+174t P(0)=305+174t 2.219 persons 47. C(x)=0.15x+10 C(x)=0.15x+10 Monthly flat fee is \$10 and there is an additional cost of \$0.15 used for each extra minute of \$113.05 49. P(t)=190t+4360 P(t)=190t+4360 51. R(t)=16-2.1t R(t)=16-2.1t 5.5 billion cubic feet During the year 2017 53. 55. More than \$42,857.14 worth of jewelry1. When our model no longer applies, after some in scope, the model itself does not hold. 3. We predict a value outside the scope and scope of the data. 5. The closer the number to 1, the less the data is dispersed, the closer the number to 0, the more scattered the data becomes. 13. Interpolation. About 60 degrees Fahrenheit 60 degrees Fahrenheit 19. 21. 23. Yes, the trend seems linear because r=0.985r=0.985 and more than 12,000 near the middle of the year, 2016, 24.6 years since 1992. 25. y=1.640x+13.800y=1.640x+13.800, r=0.987r=0.987 27. y=-0.962x+26.86,r=-0.965 29. y=-1.981x+60.197y=-1.981x+60.197; r=-0.998r=-0.998 31. y=0.121x-38.841,r=0.998y=0.121x-38.841,r=0.998 33. (-2,-6) (1,-12),(5,-20),(6,-22),(9,-28)(-2,-6) (1,-12),(5,-20),(6,-22),(9,-28) y=-2x-10y=-2x-10 35. (189.8,0) (189.8,0) If 18,980 units are sold, the company will have zero dollar profit. 37. y=0.00587x+1985.41y=0.00587x+1985.41 39. y=20.25x-671.5y=20.25x-671.5 41. y=-10.75x+742.50y=-10.75x+742.50 15. (-9,0),(0,-7)(-9,0),(0,-7) 17. Line 1: m=-2,m=-2; Line 2: m=-2,m=-2; 21 . 27. y=-300x+11,500y=-300x+11,500 29. a) 800; b) 100 students per year; c) P(t)=100t+1700P(t)=100t+1700 35. extrapolation . 37. 41. 13. (-7,0)(-7,0); (0, -2) (0,-2) 15. 17. 23. y=875x+10,675y=875x+10,675 25. a) 375; b) dropped to an average of 46.875, or about 47 people per year; c) y=-46.875t+1250y=-46.875t+1250 27. 31. y=0.00455x+1979.5y=0.00455x+1979.5 y=0.00455x+1979.5y=0.00455x+1979.5

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