Homework Answers - p. 241

17. $y = x^2 - 5x + 2$ **18.** $y = 2x^2 - x + 3$

19. $y = x^2 + 2x$ **20.** $y = -3x^2 + 20$

21. a. $y = -16x^2 + 33x + 46$, where x is the number of seconds after release and y is height in feet.

b. 28.5 ft

$s(t) = -16t^2 + 33t + 46$

$-16(2.5)^2 + 33(2.5) + 46$

27. $\left(-\frac{1}{2}, -\frac{1}{2}\right), x = -\frac{1}{2}$

29. $\left(\frac{1}{2}, 0\right), x = \frac{1}{2}$

31. a. $y = -0.0112x^2 + 1.24x + 9.97$

b. Answers may vary. Sample: domain, whole numbers from 0 to 50; range, positive whole numbers to 200.

c. 1992

d. Never; the quadratic model reaches a maximum of about 45 cents, so it is useful for only a limited number of years.

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32. 3 **33.** 8 **34.** 6

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1) Linear: y=3.090x-0.9375, Quadratic: $y=0.1457x^2-0.6930x+9.0852$; the quadratic is a better model. The residuals are closer to zero for the quadratic.

2) Linear: y=0.1971x+32.63, Quadratic: $y=-0.0074x^2+0.4200x+31.70$; the quadratic seems to be slightly better. The residuals are closer to zero for the quadratic model.

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Rounding Pre-test

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In-class work:

"Skills You'll Need for Chapter 5"
- Simplifying (including FOIL)
- Evaluate
- Using the Calculator

8, 13, 15, 19-25

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Homework:

ACT Practice Book

81 - 129 odd

Due Friday, October 9th

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