9-5 Functions and Their Inverses

Warm Up

Solve for x in terms of y.

1. $y = \frac{2}{3}x - 6$
2. $y = (x + 2)^2$
3. $y = \sqrt{x + 10}$
4. $y = 2 \ln x$

9-6 Modeling Real-World Data

Warm Up

1. Use a calculator to perform quadratic and exponential regressions on the following data.

x				
y				

9-5 Functions and Their Inverses

Warm Up

Solve for x in terms of y.

1. $y = \frac{2}{3}x - 6$ $x = \frac{3}{2}y + 9$
2. $y = (x + 2)^2$ $x = \pm\sqrt{y} - 2$
3. $y = \sqrt{x + 10}$ $x = y^2 - 10$
4. $y = 2\ln x$ $x = e^{\frac{y}{2}}$

9-6 Modeling Real-World Data

Warm Up

1. Use a calculator to perform quadratic and exponential regressions on the following data.

x	3	5	8	13
y	19	50	126	340

quadratic: $y \approx 2.13x^2 - 2x + 6.12$

exponential: $y \approx 10.57(1.32)^x$