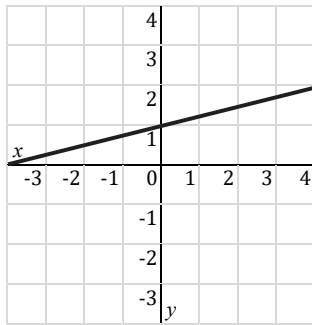


Quiz 28

Find an equation of each line in standard form. Use only integers and the smallest possible positive integer coefficient for x .

1.



2. A line has a slope of -3 and passes through $(5, -7)$.
3. A line passes through $(-2, 3)$ and $(4, -1)$.
4. A line is perpendicular to $x - 2y = 3$ and passes through $(-6, 5)$.

Solve.

5. A plane 7,000 feet above the ground begins descending at an average speed of 500 feet per minute. Write an equation representing the altitude, y , of the plane after x minutes. How long will it take the plane to reach an altitude of 2,500 feet?