

Finding Linear Equations

Write an equation of the line with the following characteristics.

1. Thru point $(-3, -6)$, with slope 2 2. Thru point $(4, 5)$, with slope $-\frac{10}{3}$

3. Thru point $(-3, 8)$, with slope $\frac{5}{2}$ 4. Thru point $(10, -7)$, with slope $-\frac{1}{4}$

5. Thru $(-4, -9)$, parallel to $4x + 15y = -34$ 6. Thru $(3, 6)$, parallel to $x = -\frac{2}{3}y + 60$

7. Thru $(-1, 5)$, parallel to $5y = -120 + 7x$ 8. Thru $(4, -2)$, perpendicular to $8x + 11y = -15$

9. Thru $(7, -4)$, perpendicular to $y = -\frac{3}{13}x - \frac{29}{13}$ 10. Thru $(-6, -6)$, perpendicular to $x = \frac{4}{5}y - 3$