Check Your Understanding
Equations of Lines: Slope, Distance, Midpoint Formulas

Answer these problems, then check your answers using the key on the next page.

#1) Find the slope of the line passing through the points $(2, 9)$ *and* $(3, -6)$

#2) Find the distance between points $(3, -8)$ *and* $(1, -5)$

#3) Find the midpoint of the line segment with endpoints $(-2, 3)$ *and* $(3, -7)$

Answers:

#1) -15

#2) $\sqrt{13}$

#3) $\left(\dfrac{1}{2}, 2\right)$