

7.3b Slope-Point Form continued

1. Write the equation of a line with the same slope as $y = 2x + 3$ and passing through $(-1, 8)$ in general form.
2. Write the equation of a line with the same y -intercept as $3x - y - 1 = 0$ and passing through $(2, -6)$ in general form.
3. Write the equation of a line with x -intercept of -5 and y -intercept of 3 in slope-intercept form.
4. Show that the point $(-2, -6)$ lies on the line that has an x -intercept of 10 and y -intercept of -5 .

5. Consider the linear equation $8x + ky - 6 = 0$. If the line passes through the point $(1, -2)$, what is the value of k ?

6. a) Find the y-intercept of an equation passing through $(-1, -2)$ and $(3, 0)$.

"Your Turn" on p376:

A family drives at a constant speed from Wrigley to visit relatives in Fort Providence. When they start driving at 9:00 am., they are 540 km from Fort Providence. At 12:30 pm. They reach Fort Simpson, located 225 km from Fort Providence.

1. Write an equation that describes their distance, d , in kilometres, from Fort Providence in terms of t hours past 9:00 am.

2. What time will the family reach Fort Providence?

