

### 3-3 Standard Form ( $Ax + By = C$ ) Equations

Name \_\_\_\_\_

- \_\_\_\_\_ 1. Rewrite the equation  $y = 3x - 5$  in standard form.
- \_\_\_\_\_ 2. Rewrite the equation  $y = \frac{2}{3}x + 5$  in standard form.
- \_\_\_\_\_ 3. Rewrite the equation  $2y = -2x - 5$  in standard form.
- \_\_\_\_\_ 4. Rewrite the equation  $3y = \frac{5}{6}x + 2$  in standard form.
- \_\_\_\_\_ 5. Rewrite the equation  $\frac{2}{3}y = \frac{3}{4}x + \frac{1}{3}$  in standard form.
- \_\_\_\_\_ 6. Give the equation of the line in standard form that is parallel to  $y = 8x - 5$  and passes through the point  $(1, 20)$ .
- \_\_\_\_\_ 7. Give the equation of the line in standard form that is parallel to  $2x + 3y = 1$  and passes through the point  $(-2, 5)$ .
- \_\_\_\_\_ 8. Give the equation of the line in standard form that is perpendicular to  $y = -3x - 5$  and passes through the point  $(8, 1)$ .
- \_\_\_\_\_ 9. Give the equation of the line in standard form that is perpendicular to  $5x - 4y = 2$  and passes through the point  $(6, 7)$ .
- \_\_\_\_\_ 10. Give the equation of the line in standard form that is parallel to  $2x + y = 6$  and passes through the point  $(3, 7)$ .