**1.** Rearrange each equation to isolate the variable indicated. Which step did you perform first each time?

**a)** *d* = *st* for *t*

**b)** *P* = 6*s* for *s*

**c)** *A* = *P* + *I* for *P*

**d)** *x* + *y* = 4 for *y*

**2.** Express each equation in
the form *y* = *mx* + *b*.

**a)** *x* + *y* + 6 = 0

**b)** 2*x* + *y* = 0

**c)** 5*x* + *y* = 3

**d)** *x* + *y* – 1 = 0

**3.** Isolate the *y* term, then write each equation in the form *y* = *mx* + *b*.

**a)** *x* + 3*y* = –1

**b)** 4*x* + 2*y* – 3 = 0

**c)** *x* + 3*y* = 0

**d)** 5*x* – *y* = 1

**e)** 6*x* – 5*y* +2 = 1

**f)** 4*x* + 2*y* = 0

**4.** Write each equation in slope *y*-intercept form.

**a)** 7*x* + *y* – 4 = 0

**b)** 2y + 3x – 8 = 0

**c)** *x* – 4*y* = 2

**d)** 4*x* – 3*y* = 0

**5.** Identify the slope and *y*-intercept of
each line.

**a)** *x* – 2*y* = –6

**b)** 3*x* + 2*y* – 1 = 0

**c)** 3*x* + 8*y* + 9 = –7

**d)** *x* – *y* = 0

**6.** Use the slope and *y*-intercept to graph each line from question 5.

Answers

**1. a)**  **b)** 

 **c)** *P* = *A* − *I* **d)** *y* = 4 − *x*

**2. a)** *y* = −*x* − 6

 **b)** *y* = −2*x*

 **c)** *y* = −5*x* + 3

 **d)** *y* = −*x* + 1

**3. a)** 3*y* = −*x* − 1; 

 **b)** 2*y* = −4*x* − 3; *y* = −2*x* + 

 **c)** 3*y* = −*x*; 

 **d)** *y* = 5*x* − 1

 **e)** 5*y* = 6*x* + 1; 

 **f)** 2*y* = −4*x*; *y* = −2*x*

**4. a)** *y* = −7*x* + 4

 **b)** 

 **c)** 

 **d)** 

**5. a)** ; 3

 **b)** ; 

 **c)** ; −2

 **d)** 1; 0

**6.** Check graphs on geogebra.org or https://www.desmos.com/calculator