More on Algebra Questions

1. Determine the value of x.

   a) $8x = -2x + 40$

   $$x = \underline{\hspace{2cm}}$$

   b) $3x^2 = 36 - 6x^2$

   $$x = \underline{\hspace{2cm}}$$

2. Determine the value of x.

   a) $x/3 = x/6 + 4$

   $$x = \underline{\hspace{2cm}}$$

   b) $3x^{1/2} = 12$

   $$x = \underline{\hspace{2cm}}$$

BONUS Question

3. Solve the system of given equations by using an appropriate algebraic method.

   a) $x + 2y = 5$ $x = \underline{\hspace{1.5cm}}$
      $x + 3y = 7$ $y = \underline{\hspace{1.5cm}}$

   b) $7x = 2y - 6$ $x = \underline{\hspace{1.5cm}}$
      $7y = 12 - 4x$ $y = \underline{\hspace{1.5cm}}$