1. Fill in the blank.

   A (1) _____ is an expression that can be written in the form $\dfrac{P}{Q}$ where P and Q are polynomials and $Q \neq 0$.

   (1) ○ simplified expression   ○ trinomial
       ○ rational expression
           ○ fraction
           ○ binomial

2. Select the correct choice that completes the sentence below.

   A rational expression is undefined if the denominator is (1) _____

   (1) ○ − 1.
       ○ 1.
       ○ 0.

3. Simplify the rational expression.

   $$\dfrac{5x - 30x^2}{5x}$$

   $$\dfrac{5x - 30x^2}{5x} = \underline{\hspace{2cm}}$$

4. Simplify the rational expression.

   $$\dfrac{x^2 - 16}{4 + x}$$

   $$\dfrac{x^2 - 16}{4 + x} = \underline{\hspace{2cm}}$$

5. Simplify the rational expression.

   $$\dfrac{6y - 18}{5y - 15}$$

   $$\dfrac{6y - 18}{5y - 15} = \underline{\hspace{2cm}}$$

6. Select the correct choice that completes the sentence below.

A rational expression is (1) _____ if the numerator and denominator have no common factors other than 1 or -1.

(1) ○ simplified
○ linear
○ a polynomial

1. (1) rational expression

2. (1) 0.

3. 1 − 6x

4. x − 4

5. $\dfrac{6}{5}$

6. (1) simplified