Change the Subject of the Formula

1. Change the subject of the formula to x:

a. $y = 2x + 5$ b. $y = 7x + 5$ c. $y = 7x - 3$ d. $y = 3 - 7x$

e. $y = 5x - 3h$ f. $y = ax - 6$ g. $h = ax + g$ i. $y = xh + gp$

2. Change the subject of the formula to x:

a. $y = \frac{3}{2}x + 5$ b. $y = \frac{5}{2}x + 3$ c. $y = \frac{7}{4}x - 3$ d. $y = 3 - \frac{7}{4}x$

e. $y = \frac{3x+5}{2}$ f. $y = \frac{2x+7}{9}$ g . $y = \frac{ax+b}{3}$ i. $y = \frac{b-ax}{c}$

3. Change the subject of the formula to x:

a. $y = x^2$ b. $y = x^3$ c. $y = 2x^3$ d. $y = x^3 + 2$

e. $y = 3x^2 + 7$ f. $y = \frac{4x^5}{3}$ g. $y = \frac{ax^3}{b}$ h. $y = ax^2 - b$

4. Change the subject of the formula to x:

a. $y = \sqrt{x}$ b. $y = \sqrt[3]{x}$ c. $y = \sqrt{x^3}$ d. $y = \sqrt[4]{5x}$

e. $y = \sqrt{\frac{3x}{5}}$ f. $y = \frac{\sqrt{3x}}{5}$ g. $y = \sqrt[3]{2x + 5}$ h. $y = \frac{3\sqrt{x}}{5}$

5. To find the area of a circle we use the formula $A = \pi r^2$. Find a formula to calculate the radius of a circle when you know the area.

6. To find the volume of a cylinder we use the formula $V = \pi r^2 h$. Find a formula to calculate

a. The radius when we know the height and the volume.

b. The height when we know the radius and the volume.

7. To find the volume of a sphere we can use the formula $V = \frac{4}{3}\pi r^3$. Find a formula to calculate the radius of the sphere when we know the volume.

8. To find the volume of a cone we use the formula $V = \frac{1}{3}\pi r^2 h$. Find a formula to calculate

a. The radius if we know the height and the volume.

b. The height if we know the radius and the volume.