1 Rearrange  $y = \sqrt{w^3}$  to make w the subject. Circle your answer.

[1 mark]

$$w = y^6 \qquad \qquad w = \sqrt{y^3} \qquad \qquad w = y^5$$

Rearrange  $y = \frac{1}{\sqrt{x+1}}$  to make x the subject.

[3 marks]

$$\frac{y(\sqrt{x+1}) = 1}{\sqrt{x+1}}$$

$$\sqrt{\chi+1} = \frac{1}{y}$$

$$x+1 = \left(\frac{1}{y}\right)^{2}$$

$$x = \frac{1}{y^2} - 1$$

Answer  $x = \frac{1}{y^2} - 1$ 

Rearrange  $y = \frac{5x+9}{x}$  to make x the subject.

[4 marks]

Answer  $\chi = \frac{9}{y-5}$ 

**4** Rearrange  $y = \frac{x+8}{x}$  to make x the subject.

[3 marks]

$$\frac{x = 8}{y = 1}$$

Answer 
$$x = \frac{8}{y-1}$$

$$\mathbf{5} \qquad \qquad a \times b^4 = c$$

Circle the correct expression for a.

[1 mark]

$$\frac{c}{\sqrt[4]{b}}$$

$$\frac{c}{b^{-4}}$$

$$\left(\frac{c}{b}\right)^4$$

$$\left(\frac{c}{b^4}\right)$$



Rearrange 6

$$9m + 4(2m - 1) = p^2 + pm$$
 to make *m* the subject.

[4 marks]

Answer

**7** Rearrange  $y = \frac{3x+7}{x}$  to make x the subject.

[4 marks]

$$yx = 3x + 7$$
 $yx - 3x = 7$ 

$$\frac{x}{y-3} = \frac{7}{9}$$

Answer 
$$x = \frac{7}{y-3}$$