

Name - _____

Start time - __: __

End time - __: __

Solve the following.

1. Make x the subject of each of the following formulas.

a) $2z = 3r + x$

b) $y = 4x$

c) $v = \frac{2}{3}x - 2$

d) $Y + 1 = \frac{x - 1}{3}$

e) $y = x + 2$

f) $k = 2(1 + 2x)$

2. Consider the formula $w = \frac{1}{1 + y}$.

a) Multiply both sides of the formula by $1 + y$.

b) Hence make y the subject of the formula.

3. Make y the subject of the following formulas.

a) $w = \frac{3}{2y}$

b) $z + 2 = \frac{2}{1 - y}$

c) $uv = \frac{1}{1 - 2y}$

d) $a + b = \frac{2}{4 - 3y}$

4. Consider the formula $2k = 12 - \sqrt{w - 2}$

a) Make $\sqrt{w - 2}$ the subject of the formula.

b) By first squaring both sides of your answer to part a), make w the subject of the formula.