

1242

$$f(x) = -2x + m$$

(a) $f(3) = 0$ ger

$$0 = -2 \cdot 3 + m$$

$$\underline{\underline{m = 6}}$$

(b) $f(5) = 15$ ger

$$15 = -2 \cdot 5 + m$$

$$m = 15 + 10$$

$$\underline{\underline{m = 25}}$$

(c) $f(-5) = 1$ ger

$$1 = (-2)(-5) + m$$

$$1 = 10 + m$$

$$\underline{\underline{m = -9}}$$

(d) $f(-3) = 3 \cdot f(0)$ ger

$$(-2)(-3) + m = 3 \cdot ((-2) \cdot 0 + m)$$

$$6 + m = 3(-2 + m)$$

$$6 + m = -6 + 3m$$

$$12 = 4m$$

$$\underline{\underline{m = 3}}$$

$f(0) = (-2) \cdot 0 + m$