

4.2 Solving by Factoring cont.

pg. 227 Your Turn

Solve $-\frac{1}{6}d^2 - \frac{1}{6}d + 2 = 0$ by factoring.

$$\cancel{-\frac{1}{6}}(d^2 + d - 12) = \cancel{0}$$

$$d^2 + d - 12 = 0$$

$$(d-3)(d+4) = 0$$

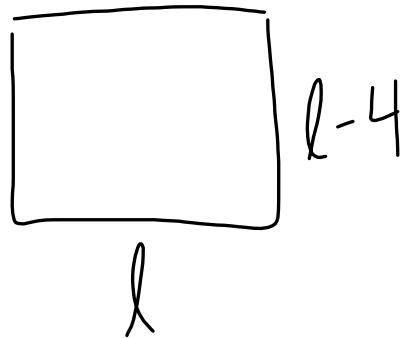
$$d-3=0 \quad d+4=0$$

$$\textcircled{d=3} \quad \cancel{d=-4} \text{ extraneous}$$

Your Turn pg. 228



OR



$$w(w+4) = 45$$

$$w^2 + 4w - 45 = 0$$

$$(w-5)(w+9) = 0$$

$$w = 5' \quad w = \cancel{-9}$$

$$l = 5 + 4 = 9'$$

Read Key Ideas pg. 229
pg. 230-233 #7-10, 19

(modelling) #11-17, 20-24, 29

(connect) #30-32