

Exercise 34

Given the function $k(t) = 2t - 1$:

- (a) Evaluate $k(2)$.
 - (b) Solve $k(t) = 7$.
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Solution

Evaluate the given function at $t = 2$.

$$k(2) = 2(2) - 1 = 4 - 1 = 3 \quad \rightarrow \quad \boxed{k(2) = 3}$$

Plug in 7 for $k(t)$ and solve the equation for t .

$$7 = 2t - 1$$

$$7 + 1 = 2t$$

$$8 = 2t$$

$$\frac{8}{2} = t$$

$$\boxed{t = 4}$$