Reading the Constant of Proportionality from Graphs

Worked example / complete source key

A graph shows a straight line through the origin with a marked point at (4, 10). The x-axis is in hours and the y-axis is in dollars. Find k, write the equation, and verify with a slope triangle.

Answer: k = 10/4 = 2.5 dollars per hour. Equation: y = 2.5x. Slope triangle from (0,0) to (4,10): run = 4, rise = 10, rise/run = 10/4 = 2.5, which matches k.