The slope of y = 3x - 5 is 3. The slope of a perpendicular line is $-\frac{1}{3}$, the negative reciprocal of 3. Its equation has the form $y = -\frac{1}{3}x + b$. To find *b*, substitute (6, 4) for *x* and *y*:

$$4 = -\frac{1}{3}(6) + b$$
, or $4 = -2 + b$, so $6 = b$

This gives the equation of the line: $y = -\frac{1}{3}x + 6$