In a direct variation, as the input increases, the output
$\qquad$ .


Solve.

1) If $y$ varies directly as $x$, and $y=6$ when $x=15$, find $y$ when $x=25$.

Express each of these formulas as a variation. Which is the constant of variation (proportionality)?

1) $C=\pi d$
2) $E=m c^{2}$
3) $A=\pi r^{2}$.

Solve. (pg. 356)
3) A real estate agent made a commission of $\$ 5400$ on a house that sold at $\$ 120,000$. At this rate, what commission will the agent make on a house that sells for $\$ 145,000$.
9) The stretch in a loaded spring varies directly as the load it supports. A load of 15 kg stretches a certain spring 3.6 cm . What load would stretch the spring 6 cm . (Hooke's Law)

[^0]
[^0]:    Assignment:
    Pg. 354
    2-12 all
    Pg. 356
    2-16 even (w.p.)

