

Physics
Mr. Clark

Name:
Period:

Topic: Math Review
Decimal answers only, Show all work!

A) Solving Equations

1) $F=ma$, solve for a

2) If $d= \frac{1}{2}at^2$, solve for t . $t=$

3) If $V^2 = 2ad$, solve for d . $d=$

4) $v_{\text{final}} = v + at$, solve for a if $v_{\text{final}}=2$ $t= 3$ $v=11$

5) $F= (kqq)/r$, solve for F if $k= 9 \times 10^9$ $q=1 \times 10^{-8}$ and $r = 4$

6) $(1.94 \times 10^{-4}) + (3.75 \times 10^{-5}) - (4.21 \times 10^{-4}) =$

7) $(10) (1.94 \times 10^{-4}) (1.94 \times 10^{-4}) (32)=$

8) $1/3.5 + 1/1.2 = 1/f$ solve for f . $f=$

9) $1/x + 5 = 12$ Solve for x . $x=$

10) Convert 1 cm to meter

11) Convert 10 m to millimeters

12) Convert 1 inch to meters

13) Convert 20 mph (miles per hour) to m/s (meters per second)

14) If $4x + 15y = 100$ and $6y = 48$, solve for x and y .

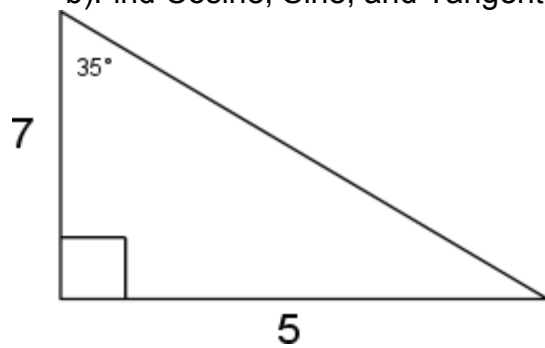
$x =$ $y =$

15) If $12x + 4y = 200$ and $40x - 4y = 150$, solve for x and y .

$x =$ $y =$

16) If $13/(x+3) = 5/8$, solve for x . $x =$

- 17) For the two triangles below: (Note not drawn to scale)
a) Label any missing side lengths and angle measures.
b) Find Cosine, Sine, and Tangent for the triangle below.



18)

12

