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Math worksheet on *'Trigonometry - Solve Trig Ratio from Values (Level 1)'*. Part of a broader unit on *'Trigonometry - Solving Triangles'*

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1 Solve for the trigonometry ratio given the values

$$opp = 14.3$$
$$hyp = 17.4$$
$$adj = 10$$
$$tan(\theta) =$$

a	b
$tan(\theta) = 249.63$	$tan(\theta) = 0.86$
c	**d**
$tan(\theta) = 1.43$	$tan(\theta) = 248.02$
e	**f**
$tan(\theta) = 2.01$	$tan(\theta) = 0.63$

2 Solve for the trigonometry ratio given the values

$$opp = 15.7$$
$$hyp = 19.2$$
$$adj = 11$$
$$cos(\theta) =$$

a	b
$cos(\theta) = 1.04$	$cos(\theta) = 0.30$
c	**d**
$cos(\theta) = 0.57$	$cos(\theta) = 0.21$
e	**f**
$cos(\theta) = 211.20$	$cos(\theta) = 0.35$

3 Solve for the trigonometry ratio given the values

$$opp = 4.6$$
$$hyp = 9.2$$
$$adj = 8$$
$$sin(\theta) =$$

a	b
$sin(\theta) = 0.19$	$sin(\theta) = 0.50$
c	**d**
$sin(\theta) = 0.28$	$sin(\theta) = 36.00$
e	**f**
$sin(\theta) = 0.14$	$sin(\theta) = 36.11$

4 Solve for the trigonometry ratio given the values

$$adj = 6$$
$$opp = 7.2$$
$$hyp = 9.3$$
$$tan(\alpha) =$$

a	b
$tan(\alpha) = 1.89$	$tan(\alpha) = 0.75$
c	**d**
$tan(\alpha) = 1.20$	$tan(\alpha) = 2.01$
e	**f**
$tan(\alpha) = 0.83$	$tan(\alpha) = 0.28$

5 Solve for the trigonometry ratio given the values

$$adj = 9$$
$$opp = 10.7$$
$$hyp = 14$$
$$sin(\beta) =$$

a	b
$sin(\beta) = 0.54$	$sin(\beta) = 1.23$
c	**d**
$sin(\beta) = 0.76$	$sin(\beta) = 0.45$
e	**f**
$sin(\beta) = 1.00$	$sin(\beta) = 2.11$

6 Solve for the trigonometry ratio given the values

$$adj = 9$$
$$hyp = 11.7$$
$$opp = 7.6$$
$$tan(\beta) =$$

a	b
$tan(\beta) = 0.48$	$tan(\beta) = 0.53$
c	**d**
$tan(\beta) = 0.84$	$tan(\beta) = 1.11$
e	**f**
$tan(\beta) = 1.87$	$tan(\beta) = 1.16$

7 Solve for the trigonometry ratio given the values

$$adj = 4$$
$$opp = 4.8$$
$$hyp = 6.2$$
$$cos(\mu) =$$

a	b
$cos(\mu) = 0.65$	$cos(\mu) = 0.92$
c	**d**
$cos(\mu) = 0.47$	$cos(\mu) = 29.07$
e	**f**
$cos(\mu) = 0.38$	$cos(\mu) = 39.25$