Math worksheet on *'Trigonometry - Solve Angles from Values (Level 1)'*. Part of a broader unit on *'Trigonometry Fundamentals - Intro'*

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1 Solve for the angle in degrees given the values

$$hyp = 14.1$$
$$opp = 10$$
$$\sigma = ?^\circ$$

a	b	c
$\sigma = 60^\circ$	$\sigma = 45^\circ$	$\sigma = 40^\circ$
d	**e**	
$\sigma = 50^\circ$	$\sigma = 65^\circ$	

2 Solve for the angle in degrees given the values

$$adj = 9$$
$$opp = 5.2$$
$$\lambda = ?^\circ$$

a	b	c
$\lambda = 40^\circ$	$\lambda = 30^\circ$	$\lambda = 25^\circ$
d		
$\lambda = 45^\circ$		

3 Solve for the angle in degrees given the values

$$opp = 4$$
$$adj = 7$$
$$\alpha = ?^\circ$$

a	b	c
$\alpha = 30^\circ$	$\alpha = 25^\circ$	$\alpha = 15^\circ$
d		
$\alpha = 40^\circ$		

4 Solve for the angle in degrees given the values

$$hyp = 7.8$$
$$adj = 5$$
$$\mu = ?^\circ$$

a	b	c
$\mu = 40^\circ$	$\mu = 50^\circ$	$\mu = 35^\circ$
d		
$\mu = 65^\circ$		

5 Solve for the angle in degrees given the values

$$adj = 3$$
$$hyp = 4.2$$
$$\alpha = ?^\circ$$

a	b	c
$\alpha = 44^\circ$	$\alpha = 39^\circ$	$\alpha = 24^\circ$
d	**e**	
$\alpha = 54^\circ$	$\alpha = 59^\circ$	

6 Solve for the angle in degrees given the values

$$hyp = 10.5$$
$$adj = 6$$
$$\theta = ?^\circ$$

a	b	c
$\theta = 40^\circ$	$\theta = 35^\circ$	$\theta = 55^\circ$
d	**e**	
$\theta = 50^\circ$	$\theta = 65^\circ$	

7 Solve for the angle in degrees given the values

$$adj = 4$$
$$hyp = 4.6$$
$$\mu = ?^\circ$$

a	b	c
$\mu = 15^\circ$	$\mu = 40^\circ$	$\mu = 20^\circ$
d		
$\mu = 30^\circ$		