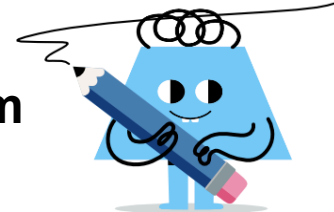# Trigonometry - Calculating Angles from Ratio Decimals and Trig Identities

Name _____

1 What angle (in degrees) has this ratio of sides?

$$\frac{adj}{hyp} = 0.946$$

A 9 deg	B 24 deg
C 34 deg	D 19 deg
E 39 deg	F 14 deg

2 What angle (in degrees) has this ratio of sides?

$$\frac{opp}{adj} = 1.54$$

A 47 deg	B 57 deg
C 62 deg	D 42 deg
E 67 deg	F 72 deg

3 What angle (in degrees) has this ratio of sides?

$$\frac{opp}{hyp} = 0.574$$

A 35 deg	B 40 deg
C 25 deg	D 50 deg
E 55 deg	F 15 deg

4 What angle (in degrees) has this ratio of sides?

$$\frac{adj}{hyp} = 0.799$$

A 52 deg	B 37 deg
C 57 deg	D 42 deg
E 27 deg	F 22 deg

5 What angle (in degrees) has this ratio of sides?

$$\frac{opp}{adj} = 1.881$$

A 57 deg	B 42 deg
C 67 deg	D 77 deg
E 62 deg	F 47 deg

6 What angle (in degrees) has this ratio of sides?

$$\frac{opp}{adj} = 2.904$$

A 76 deg	B 56 deg
C 86 deg	D 66 deg
E 71 deg	F 91 deg

7 What angle (in degrees) has this ratio of sides?

$$\frac{opp}{adj} = 9.514$$

A 64 deg	B 69 deg
C 74 deg	D 79 deg
E 89 deg	F 84 deg

8 What angle (in degrees) has this ratio of sides?

$$\frac{opp}{adj} = 2.246$$

A 81 deg	B 71 deg
C 66 deg	D 46 deg
E 51 deg	F 86 deg

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