**NAME\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_DATE\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_PER.\_\_\_\_\_\_\_\_\_\_**

**9.4 & 9.5 – TRIGONOMETRIC RATIOS**

**Use the diagram to express each ratio as a fraction.**

1. \_\_\_\_\_\_\_\_\_\_ 4) \_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. \_\_\_\_\_\_\_\_\_\_ 5) \_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. \_\_\_\_\_\_\_\_\_\_ 6) \_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Find each of the following using a trig table or a calculator.**

|  |  |  |  |
| --- | --- | --- | --- |
| 7) \_\_\_\_\_\_\_\_\_\_ |  | 8) \_\_\_\_\_\_\_\_\_\_ |  |
| 9) \_\_\_\_\_\_\_\_\_\_ |  | 10) \_\_\_\_\_\_\_\_\_ |  |
| **Set up an equation and solve for ‘’.** | | | |
| 11) Equation: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Answer: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | | 12) Equation: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Answer: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | |
| 13) Equation: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_    Answer: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | | 14) Equation: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Answer: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | |
| **Find the indicated values.** | |  | |
| 15) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_    \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | | | |

**REVIEW**

|  |  |
| --- | --- |
| 1. The endpoints of a line segment are given by the coordinates and . What are the coordinates of the midpoint of ? | 17) Find the distance between &  . Answer EXACT. |
| 18) Solve for . | 19) Find the missing length indicated. |
| 20)What is the length of the base of the  triangle shown below? | 21) Find the missing length indicated. |
| 22)  Solve for . | 23) Find the missing side of the triangle. Leave your answers in simplest radical form. |
| 24) Simplify: | 25) Simplify: |