Practice Worksheet: Right Triangles

1. a. Find the exact value of all six trig functions for the angles A and B in the triangle in Fig. 1. (The triangle may not be drawn to scale.)

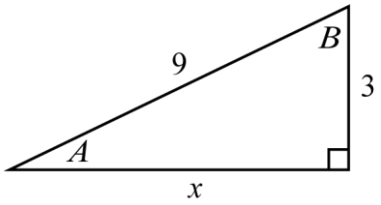

Figure 1

b. Solve the triangle in Fig. 1 by finding approximate measurements (in degrees) of angles A and B and the exact length of the side x.

2. a. Find the exact value of all six trig functions for the angles θ and ϕ in the triangle in Fig. 2. (The triangle may not be drawn to scale.)

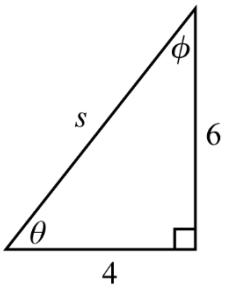

Figure 2

b. Solve the triangle in Fig. 2 by finding approximate measurements (in degrees) of angles θ and ϕ and the exact length of the side s.

3. Find the values of c, A, and B in the triangle in Figure 3. You should approximate the values (in degrees for the angles) and denote your approximations correctly.
(The triangle may not be drawn to scale.)

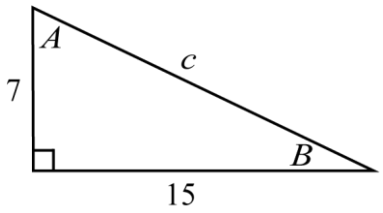

Figure 3

4. Find the values of p, q, and θ in the triangle in Figure 4. You should approximate the values (in degrees for the angles) and denote your approximations correctly.
(The triangle may not be drawn to scale.)

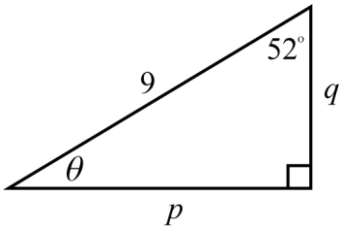

Figure 4

5. Find the values of z, X and Y in the triangle in Figure 5. You should approximate the values (in degrees for the angles) and denote your approximations correctly. (The triangle may not be drawn to scale.)

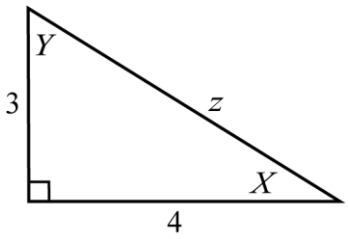

Figure 5

6. Find the values of b, A, and B in the triangle in Figure 6. You should approximate the values (in degrees for the angles) and denote your approximations correctly. (The triangle may not be drawn to scale.)

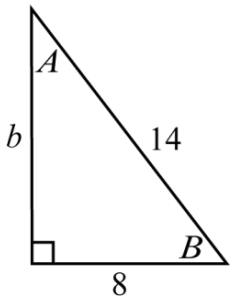

Figure 6