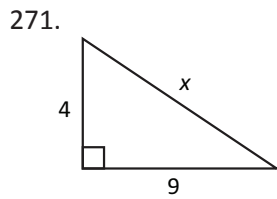




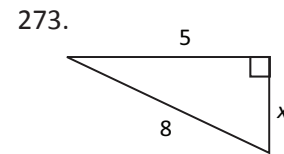
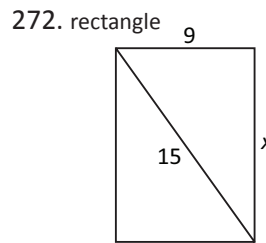
Right Triangles Stretch

For problems 271-276, the Pythagorean Theorem or a knowledge of Pythagorean triples can be used to determine the value of x in each figure. For each figure, provide the exact value of x (as an integer or in simplest radical form). If x is not an integer value, also provide the value of x expressed as a decimal to the nearest tenth.

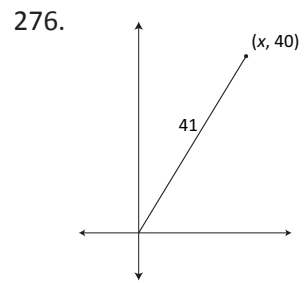
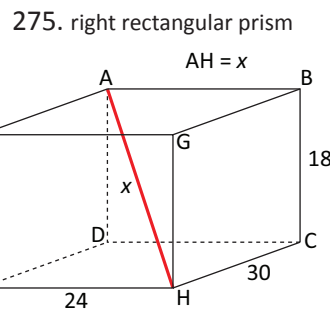
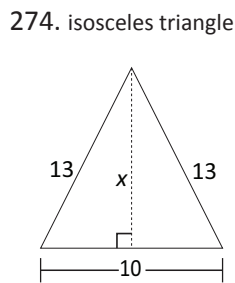
271. _____ units



272. _____ units



274. _____ units

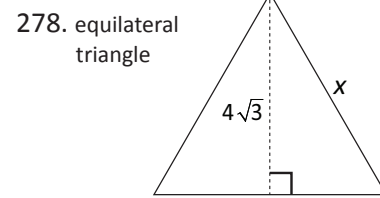
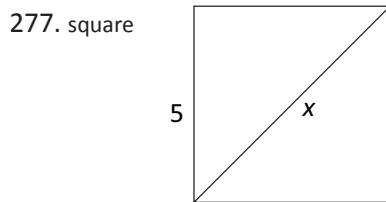


275. _____ units

276. _____ units

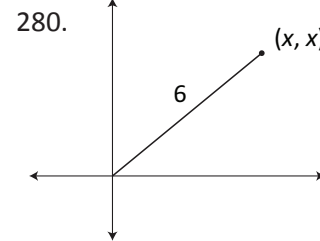
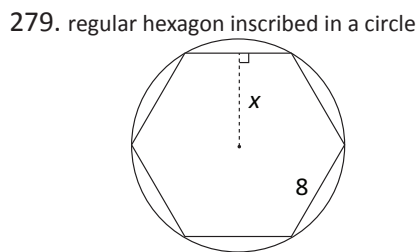
For problems 277-280, a knowledge of 30-60-90 or 45-45-90 triangles can be used to determine the value of x in each figure. For each figure, provide the exact value of x (as an integer or in simplest radical form). If x is not an integer value, also provide the value of x expressed as a decimal to the nearest tenth.

277. _____ units



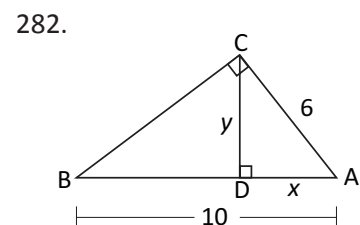
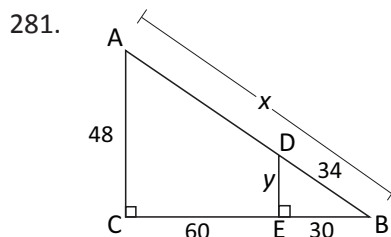
278. _____ units

279. _____ units



For problems 281-282, a knowledge of the properties of similar triangles and right triangles can be used to determine the value of x and y in each figure. If x and/or y is not an integer value, provide the value expressed as a decimal to the nearest tenth.

281. $x =$ _____ units



$y =$ _____ units

282. $x =$ _____ units

$y =$ _____ units

Right Triangles Stretch

Answer	Difficulty		
271. $\sqrt{97} \approx 9.8$	(2)	277. $5\sqrt{2} \approx 7.1$	(3)
272. 12	(2)	278. 8	(4)
273. $\sqrt{39} \approx 6.2$	(2)	279. $4\sqrt{3} \approx 6.9$	(5)
274. 12	(4)	280. $3\sqrt{2} \approx 4.2$	(4)
275. $30\sqrt{2} \approx 42.4$	(4)	281. $x = 102$	(4)
276. 9	(4)	$y = 16$	
		282. $x = 3.6$	(5)
		$y = 4.8$	