

**Lesson 9.2**

## Homework Answers

Pg 479, #1-17, 22-24, 26, 28, 37, 43, 45-47

1. $\frac{7}{25}; \frac{24}{25}$	37. A
2. $\frac{4\sqrt{2}}{9}; \frac{7}{9}$	43. 18
3. $\frac{1}{2}; \frac{\sqrt{3}}{2}$	45. $(36+18\sqrt{3})cm^2$
4. 11.5	46. $\frac{85}{2}in^2$ (or $42.5 in^2$ )
5. 8.3	47. $30\sqrt{3}mm^2$
6. 17.9	
7. 17.0	
8. 4.3	
9. 106.5	
10. 1085 ft	
11. 21	
12. 51	
13. 46	
14. 59	
15. 24	
16. 66	
17. about 17ft 8in	
22. $w = 3; x = 41$	
23. $w = 37; x = 7.5$	
24. $w = 68.3; x = 151.6$	
26. a) $\frac{\sqrt{2}}{2}$ b) $\frac{\sqrt{2}}{2}$ c) $\frac{\sqrt{2}}{2}$ d) $\frac{\sqrt{2}}{2}$	
e) They are equal.	
28. a) $\frac{\sqrt{3}}{2}$ b) $\frac{1}{2}$ c) $\frac{1}{2}$ d) $\frac{\sqrt{3}}{2}$	
e) $\cos 30^\circ = \sqrt{3} \sin 30^\circ$	
f) $\sin 60^\circ = \sqrt{3} \cos 60^\circ$	