#### Chapters 4-6 Cumulative Review, pp. 408-411

1. B; 
$$8^{\frac{1}{2}} = (\sqrt[3]{8})^2$$
  
 $= (2)^2$   
 $= 4$   
 $81^{\frac{1}{2}} = (\sqrt[4]{81})^3$   
 $= 3^3$   
 $= 27$   
 $4^2 = 16$   
 $4 - 27 + 16 = -7$   
2. A, D;  $3^{(2)(2)-1} = 3^3$   
 $= 27$   
 $2^{2(2)} \times 2^{(2-1)} = 2 \times 2^4$   
 $= 32$   
3. C:  $\{(c)^{(2n-3n)}\} \frac{(c^3)^{nn}}{2^n}$ 

3. C; 
$$[(c)^{(2n-3m)}] \frac{(c^3)^m}{(c^3)^n}$$
  
=  $[(c)^{(2n-3m)}] \frac{(c^{3m})}{(c^{3n})}$   
=  $[(c)^{(2n-3m)}] [(c)^{(3m-2n)}]$   
=  $c^{((2n-3m)+(3m-2n))}$   
=  $c^0$ 

 A; the estimate of the town's population is given by (15 000) (1.05)\*, where n is the number of years.

5. A; by the Pythagorean Theorem, the length of the line from the origin to the point (-7, 24) is  $\sqrt{(-7)^2 - 24^2}$ , or 25. By the Sine Law,  $\frac{25}{\sin 90^{\circ}} = \frac{24}{\sin 9^{\circ}}$ , where  $\theta$  is the related acute angle.

$$\theta = \sin^{-1}\left(\frac{24}{25}\right)$$

$$= 74^{\circ}$$

The principle angle is 180° - 74°, or 106°.

6. C: 
$$\csc 300^{\circ} = \frac{1}{\sin 300^{\circ}}$$
  
 $\sin 300^{\circ} = \sin (-60^{\circ})$   
 $= -\frac{\sqrt{3}}{2}$   
 $\csc 300^{\circ} = \frac{1}{-\sqrt{3}}$ 

$$=\frac{-2.\sqrt{3}}{\sqrt{3}.\sqrt{3}}$$
  
 $=\frac{-2\sqrt{3}}{3}$ 

7. B;  $\frac{\tan x \sin x}{\tan x + \sin x}$  does not equal  $\frac{\tan x \sin x}{\tan x \sin x}$ 

since  $\frac{\tan x \sin x}{\tan x \sin x}$  is 1, which would mean that

 $\frac{\tan x \sin x}{\tan x + \sin x}$  is also 1; that is, that  $\tan x \sin x$  is equal to  $\tan x + \sin x$ , which is false.



8. C; 
$$\tan 63^\circ = \frac{12}{x}$$
  
= 1.96  
1.96x = 12  
 $x = \frac{12}{1.96}$   
= 6.12



10. C; by the Pythagorean Theorem, the unlabeled leg of the triangle is  $\sqrt{13^2 - 5^2}$ , or 12.  $\csc \theta = \frac{1}{\sin \theta}$ 

$$\frac{\sin \theta}{\sin \theta} = \frac{12}{13}$$

$$\csc \theta = \frac{1}{12}$$

$$\frac{13}{13}$$

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**Tao Wei** 

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