

Chapters 4–6 Cumulative Review,
pp. 408–411

1. B; $8^{\frac{1}{3}} = (\sqrt[3]{8})^2$

$$= (2)^2$$

$$= 4$$

$$81^{\frac{1}{4}} = (\sqrt[4]{81})^3$$

$$= 3^3$$

$$= 27$$

$$4^2 = 16$$

$$4 - 27 + 16 = -7$$

2. A, D; $3^{(2)(2)-1} = 3^3$

$$= 27$$

$$2^{2(2)} \times 2^{(2)-1} = 2 \times 2^4$$

$$= 32$$

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

$$= [(c)^{(2n-3m)}] \frac{(c^{2m})}{(c^{2n})}$$

$$= [(c)^{(2n-3m)}] [(c)^{(2m-2n)}]$$

$$= c^{1(2n-3m) + (2m-2n)}$$

$$= c^0$$

$$= 1$$

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

$$(15\,000)(1.05)^{20} \approx 39\,799$$

$$\approx 40\,000$$

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,

$$\frac{25}{\sin 90^\circ} = \frac{24}{\sin \theta^\circ}, \text{ where } \theta \text{ is the related acute angle.}$$

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

$$\approx 74^\circ$$

The principle angle is $180^\circ - 74^\circ$, or 106° .

6. C; $\csc 300^\circ = \frac{1}{\sin 300^\circ}$

$$\sin 300^\circ = \sin (-60^\circ)$$

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

$$\csc 300^\circ = \frac{1}{-\frac{\sqrt{3}}{2}}$$

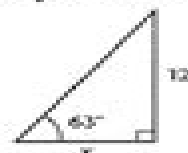
$$= \frac{-2}{\sqrt{3}} \cdot \frac{\sqrt{3}}{\sqrt{3}}$$

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

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; $\tan 63^\circ = \frac{12}{x}$

$$= 1.96$$

$$1.96x = 12$$

$$x = \frac{12}{1.96}$$

$$\approx 6.12$$

$$\approx 6$$



9. A; $\sin \theta = \frac{7}{22}$

$$\approx 18.6$$

$$\approx 19$$



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

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

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

$$\csc \theta = \frac{1}{\frac{12}{13}}$$

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

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

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