

Answers to Page 271 Class Exercises #1-4

$$1) \sin \theta = \frac{\sqrt{10}}{10} \qquad \cos \theta = -\frac{3\sqrt{10}}{10}$$

$$2) \sin \theta = -\frac{2\sqrt{5}}{5} \qquad \cos \theta = \frac{\sqrt{5}}{5}$$

$$3) \sin \theta = -\frac{2\sqrt{41}}{41} \qquad \cos \theta = -\frac{5\sqrt{41}}{82}$$

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|------------|---------|
| 4) a) Pos. | g) Neg. |
| b) Neg. | h) Pos. |
| c) Neg. | i) Pos. |
| d) Pos. | j) Neg. |
| e) Pos. | k) Neg. |
| f) Neg. | l) Neg. |

Answers to Page 272 Class Exercises #13-20

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|-------------|---------|---------|---------|
| 13) a) Neg. | b) Neg. | c) 0 | d) Pos. |
| 14) a) Pos. | b) Pos. | c) Neg. | d) Pos. |
| 15) a) Pos. | b) Neg. | c) 0 | d) Pos. |
| 16) a) Pos. | b) Neg. | c) 0 | d) Neg. |

$$17) \sin \theta = \frac{4}{5} \qquad \cos \theta = \frac{3}{5}$$

$$18) \sin \theta = -\frac{\sqrt{10}}{10} \qquad \cos \theta = -\frac{3\sqrt{10}}{10}$$

$$19) \sin \theta = \frac{12}{13} \qquad \cos \theta = -\frac{5}{13}$$

$$20) \sin \theta = -\frac{\sqrt{5}}{5} \qquad \cos \theta = \frac{2\sqrt{5}}{5}$$