



Math Olympiad and Problem Solving Programs
E130 - Honors Geometry Problem Solving
Problem Set 29.1 - Trigonometry

Name:

Date:

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1. (a) $-\tan 38^\circ$ (b) $\sin 69^\circ$ (c) $\tan 78^\circ \cdot \sin 89^\circ$
2. (a) $45^\circ, 135^\circ$ (b) 112.6° (c) 120°
3. (a) $\frac{15}{17}$ (b) $-\frac{4}{3}$
(c) $-\frac{9}{8}$ (d) $\frac{10}{17}$
4. (a) 2 (b) $\frac{1}{\sqrt{5}}$
(c) 2 (d) $-\frac{1}{\sqrt{5}}$
5. (a) 5.38
(b) 33.3
(c) 26.4°
(d) 105.4°
(e) 43.0°
(f) 114.6°
(g) 13.0
(h) 37.5
(i) 8.90
(j) 21.7
(k) 79.9°