

PC 5-4A

Draw a triangle, then use Double Angle formulas to find each value.

1) Given: $\tan \theta = \frac{3}{4}; \pi \leq \theta < \frac{3\pi}{2}$.

| | | |
|---------------------------|---------------------------|---------------------------|
| a) $\sin(2\theta)$ | b) $\cos(2\theta)$ | c) $\tan(2\theta)$ |
|---------------------------|---------------------------|---------------------------|

2) Given: $\cos \theta = -\frac{2}{3}; \tan \theta < 0$.

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| a) $\sin(2\theta)$ | b) $\cos(2\theta)$ | c) $\tan(2\theta)$ |
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Find each of the following.

3) $\sin(2 \tan^{-1} \frac{2}{3})$

4) $\cos(2 \sin^{-1} -\frac{5}{13})$

5) $\tan(2 \cos^{-1} -\frac{2}{5})$

6) $\cos(2 \sin^{-1} -\frac{7}{25})$

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