10,17,18

$\sqrt{1-\cos^2\theta}$

(10) $\cos\theta = \boxed{2/5}$

$1-(2/5)^2$

$1-4/25 = \sqrt{21/25}$

$\sin\theta$ $\boxed{\sqrt{21}/5}$

a) $2\sin\theta\cos\theta$

$2 \cdot \sqrt{21}/5 \cdot 2/5$

$\boxed{4\sqrt{21}/25}$

b) $\cos 2\theta = \cos^2\theta - \sin^2\theta$

$(2/5)^2 - (\sqrt{21}/5)^2$

$4/25 - 21/25$

$\boxed{-17/25}$

c) $\sin\theta/2$

$\pm\sqrt{\frac{1-\cos\theta}{2}}$

$\frac{1-2/5}{2}$

$\frac{3/5}{2}$

$\pm\sqrt{3/10}$

d) $\cos\theta/2$

$\frac{1+2/5}{2}$

$\frac{7/5}{2} = \sqrt{7/10}$

(17) $\sin\theta = 3/5$

$\cos\theta = 4/5$

$\tan\theta = 3/4$

a) $2 \cdot 3/5 \cdot 4/5$

$\boxed{24/25}$

b) $(4/5)^2 - (3/5)^2$

$16/25 - 9/25$

$\boxed{7/25}$

c) $\frac{24/25}{7/25}$

$\frac{24}{7}$

(18) $\sin t = 7/25$

$\cos t = 24/25$

$\tan t = 7/24$

a) $\sin 2t$

$2 \cdot 7/25 \cdot 24/25$

$\boxed{336/625}$

b) $\cos 2t$

$(24/25)^2 - (7/25)^2$

$576/625 - 49/625$

$\boxed{527/625}$

c) $\tan 2t$

$\frac{336/625}{527/625}$ $\frac{336}{527}$