

Exercise 16h  
Finding an angle given its tangent

1.  $\tan \hat{A} = 2.2$   
 $\hat{A} = \tan^{-1}(2.2)$   
 $= 65.55604522$   
 $= \underline{\underline{65.6^\circ}}$

6.  $\tan \hat{A} = 0.31$   
 $\hat{A} = \tan^{-1}(0.31)$   
 $= 17.22343619$   
 $= \underline{\underline{17.2^\circ}}$

11)  $\tan \hat{A} = 0.99293$   
 $\hat{A} = \tan^{-1}(0.99293)$   
 $= 44.79674175$   
 $= \underline{\underline{44.8^\circ}}$

15)  $\tan \hat{A} = 3.5843$   
 $\hat{A} = \tan^{-1}(3.5843)$   
 $= 74.4118985$   
 $= \underline{\underline{74.4^\circ}}$

17)  $\tan \hat{A} = 2.666666$   
 $\hat{A} = \tan^{-1}(2.666666)$   
 $= 69.44395007$   
 $= \underline{\underline{69.4^\circ}}$

(22)  $\tan \hat{A} = 0.840$   
 $\hat{A} = \tan^{-1}(0.840)$   
 $= 40.03025927$   
 $= \underline{\underline{40.0^\circ}}$

(29)  $\tan \hat{A} = 1.14$   
 $\hat{A} = \tan^{-1}(1.14)$   
 $= 48.7429883$   
 $= \underline{\underline{48.7^\circ}}$

(32)  $\tan \hat{A} = 1.1$   
 $\hat{A} = \tan^{-1}(1.1)$   
 $= 47.72631099$   
 $= \underline{\underline{47.7^\circ}}$

(35)  $\tan \hat{A} = 1.01$   
 $\hat{A} = \tan^{-1}(1.01)$   
 $= 45.28505128$   
 $= \underline{\underline{45.3^\circ}}$