

GROUP WORK I, SECTION 7.6

Inverse Trickery

Rewrite the following expressions in terms of x without any trigonometric or inverse trigonometric functions.

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

2. $\sec(\tan^{-1} \frac{x}{3})$

3. $\cos(\sin^{-1} x^2)$

4. $\tan(\sin^{-1} \frac{x}{4})$

5. $\sin(2 \tan^{-1} x)$