

Name: _____

Inverse Trigonometric Functions

1) Find y in each equation

1) $y = \arcsin \frac{1}{2}$

2) $y = \sin^{-1}(-1)$

3) $y = \sin^{-1}(-2)$

4) $y = \cos^{-1}\left(\frac{\sqrt{2}}{2}\right)$

5) $y = \arccos 1$

2) Write each trigonometric expression as an algebraic expression in u

1) $\sin(\tan^{-1} u)$

2) $\cos(\sin^{-1} u)$

3) Find the degree measure of θ in the following:

1) $\theta = \arctan 1$

2) $\theta = \sec^{-1} 2$

3) $\theta = \csc^{-1}(-3)$

4) $\theta = \operatorname{arc cot}(-0.3541)$

the 1990s, the number of people in the UK who are aged 65 and over has increased from 10.5 million to 13.5 million (1990-2000) (Office for National Statistics 2001).

There is a growing awareness of the need to address the health care needs of the elderly population. The Department of Health (2001) has set out a strategy for the NHS to meet the needs of the elderly population. This strategy is based on the following principles:

- To ensure that the NHS is able to meet the needs of the elderly population.
- To ensure that the NHS is able to provide a high quality of care for the elderly population.
- To ensure that the NHS is able to provide a range of services to meet the needs of the elderly population.

The NHS is currently facing a number of challenges in meeting these principles. These challenges are:

- A growing elderly population.
- A growing number of people with long-term conditions.
- A growing number of people with mental health problems.
- A growing number of people with learning disabilities.

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