**10A Finding Acute Angles**

1. Write sin 130º as sine of an acute angle
2. Write cos (-120)º as cos of an acute angle
3. Write tan190 as tan of an acute angle

**10B Trigonometric Exact Values**

1. Find the Exact Value of sin (120)
2. Find the Exact Value of cos (135)
3. Find the Exact Value of tan (150)

**10C Part 1 Exact Values Given a Trigonometric Ratio**

1. Given that Cosθ is -3/5 and θ is reflex, find the value of Sinθ
2. Given that Sinθ is 2/5 and θ is obtuse, find the value of Cosθ

**10C Part 2 Trigonometric Identities**

1. Simplify the following expression:
2. $sin^{2}3θ+cos^{2}3θ$
3. $5-5sin^{2}θ$
4. $\frac{sin2θ}{\sqrt{1-sin^{2}2θ}}$
5. Prove that:

$$\frac{cos^{4}θ-sin^{4}θ}{cos^{2}θ}≡1-tan^{2}θ$$

1. Given that $p=3cosθ$ and that $q=2sinθ$, show that $4p^{2}+9q^{2}=36$

**10D Solving Simple Trigonometric Equations**

1. Solve the equation

$sinθ=0.5$ in the interval $0\leq θ\leq 360$

1. Solve the equation

$5sinθ=-2$ in the interval $0\leq θ\leq 360$

1. Solve the equation

$sinθ=2cosθ$ in the interval $0\leq θ\leq 360$

**10E Adjusting Limits**

1. Solve the equation

$cos2θ=-1$ in the interval $0\leq θ\leq 360$

1. Solve the equation

$\sin(\left(2θ-35\right))=-1$ in the interval $-180\leq θ\leq 180$

**10F Trigonometric Quadratics**

1. Solve the equation

$sin^{2}θ-3sinθ+2=0$ in the interval $0\leq θ\leq 360$

1. Solve the equation

$2cos^{2}θ-cosθ-1=0$ in the interval $0\leq θ\leq 360$

1. Solve the equation

$sin^{2}(θ-30)=\frac{1}{2}$ in the interval $0\leq θ\leq 360$

1. Solve the equation

$2cos^{2}x+9sinx=3sin^{2}x$ in the interval $-180\leq θ\leq 180$