Indices and surds

- 3) 124 = 216
- 4) 172 = 612
- 5) 6/27 = 18/3
- 6) 3/15 = 3/15

Radiopolisation

$$\frac{3}{6\sqrt{2}} \Rightarrow \frac{3\sqrt{6}}{12}$$

$$\frac{3}{\sqrt{2}-1} \times \frac{12}{\sqrt{2}} + 1 \Rightarrow \frac{3\sqrt{2}+3}{2+1} \Rightarrow \frac{3\sqrt{2}+1}{3} \Rightarrow \frac{3\sqrt{2}+1}{3$$

Expand & Simplify

(1)(2,412)2 = 22 + 2(2)(41/2)+ (41/2)

36+ 18-45 4 * 18-45 +35

(ii) (5-5/2)2: 25-2(3/2)(5)+(3/2)2

= 25-30/2 -8

(ii) (3-412)2 = 9-2472+32

(iv) (1+275)2 = 1+ 475+20

c) (22-n) (42m+3)=23

 $(2^{2-n})(2^{4n+6}) = 2^{3}$ $2^{3n+8} = 2^{3}$ 3n+8=3 Bn = -5 n=-5/3

5m2=6 5 x = 4 n=0.8

 $(6) 2^{3n+1} \times 8^{n-1} = 128$ $2^{3n+1} \times 2^{3n-3} = 2^{7}$ $2^{6n-2} = 2^{7}$ 6x-2=7

> Bn= 5 n= 5/6 8 3 x x 3 4 - 2 m = 3-3 3-2+5 = 33 - x+5=-3 -21 = -8

n=8

