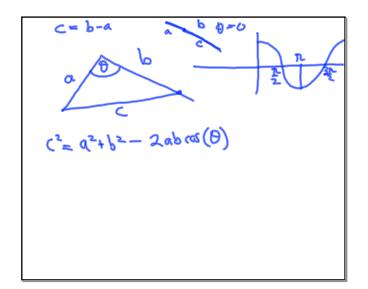
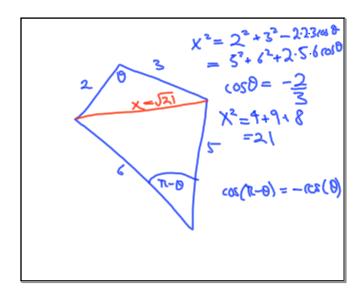
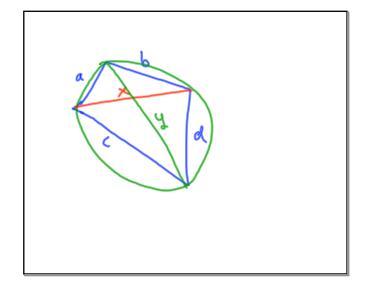
Math 407 October 22, 2008







$$b((ba+ac) + ad(ac+ba) = (an+bc)(ac|ba)$$

$$X^{2} = a^{2} + b^{2} - ab(a^{2} + b^{2} - c^{2} - d^{2})$$

$$= a^{2}(d + b^{2}(d + abc^{2} + abd^{2})$$

$$= (a^{2} + b^{2})cd + ab((c^{2} + d^{2}))$$

$$= (ac)(ad) + (bc)(bd) + (ac)(bc) + (ad)(bd)$$

$$ab+cd$$

$$= (ac)(ad) + (bc)(bd) + (ac)(bc) + (ad)(bd)$$

$$\chi^2 = \frac{(ad+bc)(ac+bd)}{(ab+cd)}$$

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