18th September

Show that $(\sqrt{2} + 3\sqrt{8})^2 = 98$

Prove the sum of four consecutive odd numbers is always a multiple of 8

$$f(x) = 8 - 3x$$
$$g(x) = 4x$$

Calculate the value of

$$gf(3)$$

ABCD is a square, X is a point in the diagonal BD and the perpendicular from B to AX meets AC in Y.
Prove that triangles AXD and AYB are congruent.