Typesetting Mathematics

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February 15, 2024

The area of a circle is given by $A = \pi r^2$. The quadratic formula states that the solutions to $ax^2 + bx + c = 0$ are

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}.$$

For example, if a=2 , b=-5 and c=3 , then we have

$$x = \frac{-(-5) \pm \sqrt{(-5)^2 - 4(2)(3)}}{2(2)}$$

$$= \frac{5 \pm \sqrt{25 - 24}}{4}$$

$$= \frac{5 \pm 1}{4}$$

$$= \frac{3}{2} \text{ or } 1.$$

Here's a fun equation:

$$\oint_C \vec{F} \cdot d\vec{r} = \iint_S (\nabla \times \vec{F}) \cdot d\vec{S}.$$