

Calcul de l'image d'une valeur particulière par une fonction f.

Exemple .

Etant donnée la fonction carrée f définie par $f(x) = x^2 - 2x + 5$, calculer $f(1/7)$.

Solution 1.

Procédure calculatrice HP 40GS	Affichage à l'écran
Dans CAS vous activez la touche MATH puis ALGEBRA et enfin	$ =$ <div style="border: 1px solid black; display: inline-block; padding: 2px;">TOOL</div> <div style="border: 1px solid black; display: inline-block; padding: 2px;">ALGB</div> <div style="border: 1px solid black; display: inline-block; padding: 2px;">DIFF</div> <div style="border: 1px solid black; display: inline-block; padding: 2px;">REWRI</div> <div style="border: 1px solid black; display: inline-block; padding: 2px;">SOLV</div> <div style="border: 1px solid black; display: inline-block; padding: 2px;">TRIG</div>
$X^2 - 2X + 5$	$X^2 - 2X + 5 =$ <div style="border: 1px solid black; display: inline-block; padding: 2px;">TOOL</div> <div style="border: 1px solid black; display: inline-block; padding: 2px;">ALGB</div> <div style="border: 1px solid black; display: inline-block; padding: 2px;">DIFF</div> <div style="border: 1px solid black; display: inline-block; padding: 2px;">REWRI</div> <div style="border: 1px solid black; display: inline-block; padding: 2px;">SOLV</div> <div style="border: 1px solid black; display: inline-block; padding: 2px;">TRIG</div>
$X 1/7$	$X^2 - 2X + 5 X = 1/7$ <div style="border: 1px solid black; display: inline-block; padding: 2px;">TOOL</div> <div style="border: 1px solid black; display: inline-block; padding: 2px;">ALGB</div> <div style="border: 1px solid black; display: inline-block; padding: 2px;">DIFF</div> <div style="border: 1px solid black; display: inline-block; padding: 2px;">REWRI</div> <div style="border: 1px solid black; display: inline-block; padding: 2px;">SOLV</div> <div style="border: 1px solid black; display: inline-block; padding: 2px;">TRIG</div>
ENTER	$(1/7)^2 - 2.1/7 + 5$ <div style="border: 1px solid black; display: inline-block; padding: 2px;">TOOL</div> <div style="border: 1px solid black; display: inline-block; padding: 2px;">ALGB</div> <div style="border: 1px solid black; display: inline-block; padding: 2px;">DIFF</div> <div style="border: 1px solid black; display: inline-block; padding: 2px;">REWRI</div> <div style="border: 1px solid black; display: inline-block; padding: 2px;">SOLV</div> <div style="border: 1px solid black; display: inline-block; padding: 2px;">TRIG</div>
ENTER	$232/49$ <div style="border: 1px solid black; display: inline-block; padding: 2px;">TOOL</div> <div style="border: 1px solid black; display: inline-block; padding: 2px;">ALGB</div> <div style="border: 1px solid black; display: inline-block; padding: 2px;">DIFF</div> <div style="border: 1px solid black; display: inline-block; padding: 2px;">REWRI</div> <div style="border: 1px solid black; display: inline-block; padding: 2px;">SOLV</div> <div style="border: 1px solid black; display: inline-block; padding: 2px;">TRIG</div>

Solution 2.

Procédure calculatrice HP 40GS	Affichage à l'écran						
Dans CAS vous activez la touche ALGB du bandeau inférieur puis DEF	DEF() <table border="1"><tr><td>TOOL</td><td>ALGB</td><td>DIFF</td><td>REWRI</td><td>SOLV</td><td>TRIG</td></tr></table>	TOOL	ALGB	DIFF	REWRI	SOLV	TRIG
TOOL	ALGB	DIFF	REWRI	SOLV	TRIG		
$F(X) = X^2 - 2X + 5$	DEF(F(X) = $X^2 - 2X + 5$) <table border="1"><tr><td>TOOL</td><td>ALGB</td><td>DIFF</td><td>REWRI</td><td>SOLV</td><td>TRIG</td></tr></table>	TOOL	ALGB	DIFF	REWRI	SOLV	TRIG
TOOL	ALGB	DIFF	REWRI	SOLV	TRIG		
F(1/7) ENTER	$(1/7)^2 - 2 \cdot 1/7 + 5$ <table border="1"><tr><td>TOOL</td><td>ALGB</td><td>DIFF</td><td>REWRI</td><td>SOLV</td><td>TRIG</td></tr></table>	TOOL	ALGB	DIFF	REWRI	SOLV	TRIG
TOOL	ALGB	DIFF	REWRI	SOLV	TRIG		
ENTER	232/49 <table border="1"><tr><td>TOOL</td><td>ALGB</td><td>DIFF</td><td>REWRI</td><td>SOLV</td><td>TRIG</td></tr></table>	TOOL	ALGB	DIFF	REWRI	SOLV	TRIG
TOOL	ALGB	DIFF	REWRI	SOLV	TRIG		