

**University of North Georgia**  
**Mathematics Tournament**  
**April 7, 2018**

**Solutions for the Afternoon Team Competition**

"

Tqwpf"3"

Htq o "vjg" hki wtg" dgnqy < " vcp  $D \frac{8}{x} \frac{37}{8} x$  0""Uk o rnh{kpi " ikxgu" 58 37x x<sup>4</sup> "cpf"vjgp"

x<sup>4</sup> 37x 58 2 0""Uqnxkpi" ikxgu" x 5 qt x 34 0""Uq" vcp  $D \frac{8}{x} \frac{8}{34} \frac{3}{4}$  "qt" vcp  $D \frac{8}{x} \frac{8}{5}$  4 0"

"

"

"

"



Kh" {qw"pggf"vjku"fqew o gpv"kp"cpqvjgt"hqt o cv."rngcug"g o ckn"

Tqwpf"32"

"

Ukpeg"vjg"uw o "qh"vjg"uswctgu"qh"vjg"ukfgu"qh"c"tki jv"vtkcping"ku"79:."yg"jcxg" $a^4 b^4 c^4$  79:0""

Uwduvkvwvki" $a^4 b^4$ hqt" $c^4$ "ikxgu" $a^4 b^4 a^4 b^4$  79:0""Eq o d k p k p i "v g t o u" i k x g u"  $4a^4 4b^4$  79: c p f"

$a^4 b^4$  4:; """"\*3+0"

Ukpeg"vjg"rgtk o g v g t "q h "v j g "t k i j v "v t k c p i n g "k u "62."y g "j c x g"  $a b c$  62 0""Uwduvkvwvki"hqt"i k x g u"

√

Kh" { q w " p g g f " v j k u " f q e w o g p v " k p " c p q v j g t " h q t o c v . " r n g c u g " g o c k n " [o k p u w 0 m k o B w p i 0 g f w](#) " q t " e c m " 89 : / 939 / 57680 "

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