



# Pythagorean hypotenuses as contraharmonic means

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$c^2 = a^2 + b^2$	$c = \frac{u^2 + v^2}{u + v}$	N.B.
$5^2 = 3^2 + 4^2$	$5 = (2^2 + 6^2)/(2 + 6)$	3
$10^2 = 6^2 + 8^2$	$10 = (6^2 + 12^2)/(6 + 12)$	
$13^2 = 5^2 + 12^2$	$13 = (3^2 + 15^2)/(3 + 15)$	5
$15^2 = 9^2 + 12^2$	$15 = (9^2 + 18^2)/(9 + 18)$	
$17^2 = 8^2 + 15^2$	$17 = (5^2 + 20^2)/(5 + 20)$	5
$20^2 = 12^2 + 16^2$	$20 = (8^2 + 24^2)/(8 + 24)$	
$25^2 = 7^2 + 24^2$	$25 = (4^2 + 28^2)/(4 + 28)$	7
$26^2 = 10^2 + 24^2$	$26 = (6^2 + 30^2)/(6 + 30)$	
$29^2 = 20^2 + 21^2$	$29 = (14^2 + 35^2)/(14 + 35)$	7
$30^2 = 18^2 + 24^2$	$30 = (12^2 + 36^2)/(12 + 36)$	
$34^2 = 16^2 + 30^2$	$34 = (10^2 + 40^2)/(10 + 40)$	5
$35^2 = 21^2 + 28^2$	$35 = (14^2 + 42^2)/(14 + 42)$	
$37^2 = 12^2 + 35^2$	$37 = (30^2 + 42^2)/(30 + 42)$	7
$39^2 = 15^2 + 36^2$	$39 = (9^2 + 45^2)/(9 + 45)$	
$40^2 = 24^2 + 32^2$	$40 = (16^2 + 48^2)/(16 + 48)$	
$41^2 = 9^2 + 40^2$	$41 = (36^2 + 45^2)/(36 + 45)$	3
$50^2 = 14^2 + 48^2$	$50 = (42^2 + 56^2)/(42 + 56)$	7
$51^2 = 24^2 + 45^2$	$51 = (15^2 + 60^2)/(15 + 60)$	
$52^2 = 20^2 + 48^2$	$52 = (12^2 + 60^2)/(12 + 60)$	3
$53^2 = 28^2 + 45^2$	$53 = (18^2 + 63^2)/(18 + 63)$	7
$55^2 = 33^2 + 44^2$	$55 = (22^2 + 66^2)/(22 + 66)$	
$58^2 = 40^2 + 42^2$	$58 = (30^2 + 70^2)/(30 + 70)$	7
$60^2 = 36^2 + 48^2$	$60 = (24^2 + 72^2)/(24 + 72)$	
$61^2 = 11^2 + 60^2$	$61 = (6^2 + 66^2)/(6 + 66)$	11
$61^2 = 11^2 + 60^2$	$61 = (55^2 + 66^2)/(55 + 66)$	11
$65^2 = 39^2 + 52^2$	$65 = (26^2 + 78^2)/(26 + 78)$	
$68^2 = 32^2 + 60^2$	$68 = (20^2 + 80^2)/(20 + 80)$	
$70^2 = 42^2 + 56^2$	$70 = (28^2 + 84^2)/(28 + 84)$	
$73^2 = 48^2 + 55^2$	$73 = (40^2 + 88^2)/(40 + 88)$	11
$74^2 = 24^2 + 70^2$	$74 = (14^2 + 84^2)/(14 + 84)$	7
$75^2 = 21^2 + 72^2$	$75 = (12^2 + 84^2)/(12 + 84)$	7
$78^2 = 30^2 + 72^2$	$78 = (18^2 + 90^2)/(18 + 90)$	
$80^2 = 48^2 + 64^2$	$80 = (32^2 + 96^2)/(32 + 96)$	
$82^2 = 18^2 + 80^2$	$82 = (10^2 + 90^2)/(10 + 90)$	3
$85^2 = 40^2 + 75^2$	$85 = (25^2 + 100^2)/(25 + 100)$	
$87^2 = 60^2 + 63^2$	$87 = (42^2 + 105^2)/(42 + 105)$	7
$89^2 = 39^2 + 80^2$	$89 = (24^2 + 104^2)/(24 + 104)$	13
$90^2 = 54^2 + 72^2$	$90 = (36^2 + 108^2)/(36 + 108)$	
$91^2 = 35^2 + 84^2$	$91 = (21^2 + 105^2)/(21 + 105)$	
$95^2 = 57^2 + 76^2$	$95 = (38^2 + 114^2)/(38 + 114)$	19
$97^2 = 72^2 + 65^2$	$97 = (45^2 + 117^2)/(45 + 117)$	13
$100^2 = 60^2 + 80^2$	$100 = (40^2 + 120^2)/(40 + 120)$	