								$\frac{\Gamma \vdash \mathbb{N} \text{ type}}{\Gamma \vdash \mathbb{N} \text{ type}} \delta \qquad \frac{\Gamma \vdash \mathbb{N} \text{ type}}{\Gamma \vdash \mathbb{N} \text{ type}} \delta$	$\frac{\overline{\Gamma \vdash \mathbb{N} \text{ type}}}{\Gamma \vdash \mathbb{N} \text{ type}} \frac{\overline{\Gamma \vdash \mathbb{N} \text{ type}}}{\overline{\Gamma} r : \mathbb{N} \vdash \mathbb{S}(r) : \mathbb{N}} \text{ ev} \qquad \frac{\overline{\Gamma \vdash \mathbb{N} \text{ type}}}{\overline{\Gamma} \vdash \mathbb{N} \text{ type}} \frac{\overline{\Gamma} \vdash \mathbb{N} \text{ type}}{\overline{\Gamma} m : \mathbb{N} \vdash \mathbb{S} : \mathbb{N}}$
						$\frac{\overline{\Gamma} \vdash s : \mathbb{N} \to \mathbb{N}}{ $	$ \underline{ \begin{array}{cccccccccccccccccccccccccccccccccc$	1, 110.11, 10.11	$\frac{\mathbb{N} \text{ type}}{\mathbb{N} \text{ type}} \frac{\Gamma, n: \mathbb{N}, r: \mathbb{N} \vdash \mathbf{s}(r) : \mathbb{N}}{\Gamma, n: \mathbb{N}, r: \mathbb{N} \vdash \mathbf{s}(r) : \mathbb{N}} W \frac{\Gamma, m: \mathbb{N}, n: \mathbb{N} \vdash \mathbf{ap_s} : \Pi_{(x: \mathbb{N})} \Pi_{(y: \mathbb{N})}(x = y \to \mathbf{s})}{\Gamma, m: \mathbb{N}, n: \mathbb{N} \vdash \mathbf{ap_s} : \Pi_{(x: \mathbb{N})} \Pi_{(y: \mathbb{N})}(x = y \to \mathbf{s})}$
					$\frac{\Gamma \vdash \mathbb{N} \text{ type}}{\delta} \qquad \frac{\Gamma \vdash \mathbb{N} \text{ type}}{\delta}$	$\frac{\Gamma \vdash \mathbb{N} \text{ type} \qquad \Gamma, m : \mathbb{N} \vdash \mathbf{s}(m) : \mathbb{N}}{\Gamma, m : \mathbb{N}, n : \mathbb{N} \vdash \mathbf{s}(m) : \mathbb{N}} W \qquad \frac{\Gamma \vdash \mathbb{N} \text{ type} \qquad \Gamma, n : \mathbb{N} \vdash n : \mathbb{N}}{\Gamma, m : \mathbb{N}, n : \mathbb{N} \vdash n : \mathbb{N}} W}{\Gamma, m : \mathbb{N}, n : \mathbb{N} \vdash \mathbf{s}(m) + \mathbf{s}(n) \equiv \mathbf{s}(\mathbf{s}(m) + n) : \mathbb{N}}$	$\frac{\Gamma \vdash \mathbb{N} \text{ type} \qquad \Gamma, m \colon \mathbb{N} \vdash \mathbf{s}(m) \colon \mathbb{N}}{\Gamma, m \colon \mathbb{N}, n \colon \mathbb{N} \vdash \mathbf{s}(m) \colon \mathbb{N}} W \qquad \frac{\Gamma \vdash \mathbb{N} \text{ type} \qquad \Gamma, n \colon \mathbb{N} \vdash n \colon \mathbb{N}}{\Gamma, m \colon \mathbb{N}, n \colon \mathbb{N} \vdash n \colon \mathbb{N}} W}{\Gamma, m \colon \mathbb{N}, n \colon \mathbb{N} \vdash (\mathbf{s}(m) + n) \colon \mathbb{N}}$	$\Gamma, m: \mathbb{N}, n: \mathbb{N} \vdash (m+n): \mathbb{N}$	$\Gamma, m : \mathbb{N}, n : \mathbb{N}, r : \mathbb{N} \vdash \mathrm{s}(r) : \mathbb{N} \qquad \qquad V \qquad \qquad \Gamma, m : \mathbb{N}, n : \mathbb{N}, x : \mathbb{N} \vdash \mathrm{ap_s}(x) : \Pi_{(y : \mathbb{N})}(x = y \to y)$
			$\Gamma \vdash \mathbb{N} \text{ type} \qquad \qquad \Gamma \vdash \mathbf{s} : \mathbb{N} \to \mathbb{N}$	$\Gamma \vdash s : \mathbb{N} \to \mathbb{N}$	$\Gamma \vdash \mathbb{N} \text{ type} \qquad \Gamma, m : \mathbb{N} \vdash m : \mathbb{N} \cup \Pi \qquad \Gamma \vdash \mathbb{N} \text{ type} \qquad \Gamma, n : \mathbb{N} \vdash n : \mathbb{N} \cup \Pi $	$\frac{\Gamma \vdash \mathbb{N} \text{ type} \qquad \Gamma, m : \mathbb{N} \vdash \mathbf{s}(m) : \mathbb{N}}{\Gamma, m : \mathbb{N}, n : \mathbb{N} \vdash \mathbf{s}(m) : \mathbb{N}} W \qquad \frac{\Gamma \vdash \mathbb{N} \text{ type} \qquad \Gamma, n : \mathbb{N} \vdash n : \mathbb{N}}{\Gamma, m : \mathbb{N}, n : \mathbb{N} \vdash n : \mathbb{N}} W$	${\Gamma, m \colon \mathbb{N}, n \colon \mathbb{N} \vdash \mathrm{s}(m) \colon \mathbb{N}} W \qquad {\Gamma, m \colon \mathbb{N}, n \colon \mathbb{N} \vdash n \colon \mathbb{N}} W$	$\Gamma, m: \mathbb{N}, n: \mathbb{N} \vdash s(m+n): \mathbb{N}$	$\Gamma, m: \mathbb{N}, n: \mathbb{N}, x: \mathbb{N}, y: \mathbb{N} \vdash \operatorname{ap}_{\operatorname{s}}(x, y): x = y - \mathbb{N}$
		$\overline{\Gamma \vdash \mathbf{s} : \mathbb{N} \to \mathbb{N}} \qquad \overline{\Gamma \vdash \mathbf{s} : \mathbb{N} \to \mathbb{N}} \qquad \overline{\Gamma}$	$\overline{\Gamma \vdash \mathbb{N} \text{ type}} \qquad \overline{\Gamma, m \colon \mathbb{N} \vdash m \colon \mathbb{N}}^{O} \qquad \overline{\Gamma \vdash \mathbb{N} \text{ type}} \qquad \overline{\Gamma, n \colon \mathbb{N} \vdash \text{s}(n) \colon \mathbb{N}}^{\text{ev}}$	$\Gamma \vdash \mathbb{N} \text{ type} \qquad \overline{\Gamma, r : \mathbb{N} \vdash s(r) : \mathbb{N}} \stackrel{\text{ev}}{\longrightarrow} W$	$\frac{\Gamma \vdash \mathbb{N} \text{ type} \qquad \Gamma, m \colon \mathbb{N} \vdash m \colon \mathbb{N}}{\Gamma, m \colon \mathbb{N}, n \colon \mathbb{N} \vdash m \colon \mathbb{N}} W \qquad \frac{\Gamma \vdash \mathbb{N} \text{ type} \qquad \Gamma, n \colon \mathbb{N} \vdash n \colon \mathbb{N}}{\Gamma, m \colon \mathbb{N}, n \colon \mathbb{N} \vdash n \colon \mathbb{N}} W$	$\Gamma, m: \mathbb{N}, n: \mathbb{N} \vdash s(m) + s(n) \equiv s(s(m) + n) : \mathbb{N}$	$\Gamma, m: \mathbb{N}, n: \mathbb{N} \vdash (s(m)+n): \mathbb{N}$	$\Gamma, m: \mathbb{N}, n: \mathbb{N}, x$	$x: \mathbb{N} \vdash \operatorname{ap}_{s}(x, \operatorname{s}(m+n)) : x = \operatorname{s}(m+n) \to \operatorname{s}(x) = \operatorname{s}(\operatorname{s}(m+n))$
		$\frac{\Gamma \vdash \mathbb{N} \text{ type}}{\Gamma, m : \mathbb{N}, n : \mathbb{N} \vdash \text{s}(m) : \mathbb{N}} \stackrel{\text{ev}}{=} W \qquad \frac{\Gamma \vdash \mathbb{N} \text{ type}}{\Gamma, n : \mathbb{N} \vdash \text{s}(n) : \mathbb{N}} \stackrel{\text{ev}}{=} W \qquad \frac{\Gamma \vdash \mathbb{N} \text{ type}}{\Gamma, m : \mathbb{N}, n : \mathbb{N} \vdash \text{s}(n) : \mathbb{N}} W$	${\Gamma, m \colon \mathbb{N}, n \colon \mathbb{N} \vdash m \colon \mathbb{N}} \qquad {\Gamma, m \colon \mathbb{N}, n \colon \mathbb{N} \vdash \mathrm{s}(n) \colon \mathbb{N}} \qquad \qquad V$	$\frac{\overline{\Gamma \vdash \mathbb{N} \text{ type}} \overline{\Gamma, n : \mathbb{N}, r : \mathbb{N} \vdash \mathbf{s}(r) : \mathbb{N}}}{\Gamma, m : \mathbb{N}, n : \mathbb{N}, r : \mathbb{N} \vdash \mathbf{s}(r) : \mathbb{N}} W$	$\Gamma, m: \mathbb{N}, n: \mathbb{N} \vdash m + \mathbf{s}(n) \equiv \mathbf{s}(m+n) : \mathbb{N}$ $\Gamma, m: \mathbb{N}, n: \mathbb{N} \vdash \mathbf{s}(m+n) \equiv m + \mathbf{s}(n) : \mathbb{N}$ $W TOTAL$	$\Gamma, m: \mathbb{N}, n: \mathbb{N} \vdash s(s(m) + n) \equiv s(m) + s(n) : \mathbb{N}$	$\Gamma, m \colon \mathbb{N}, n \colon \mathbb{N} \vdash \operatorname{ap_s}(\operatorname{s}(m) + n, \operatorname{s}(m+n)) \colon \operatorname{s}(m) + n = \operatorname{s}(m+n) \to \operatorname{s}(\operatorname{s}(m) + n) = \operatorname{s}(\operatorname{s}(m+n))$		
$\overline{\Gamma dash \mathbb{N} \ \mathrm{type}}$, $\overline{\Gamma \ \ \mathrm{type}}$, $\overline{\Gamma \ \ \ \mathrm{type}}$, $\overline{\Gamma \ \ \ \ \mathrm{type}}$, $\Gamma \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$	$\overline{\mathbb{N} \! \to \! \mathbb{N}}$	${\Gamma,m\!:\!\mathbb{N},n\!:\!\mathbb{N}\vdash\mathrm{s}(m):\mathbb{N}} \qquad {\Gamma,m\!:\!\mathbb{N},n\!:\!\mathbb{N}\vdash\mathrm{s}(n):\mathbb{N}} \qquad {}$	$\Gamma, m : \mathbb{N}, n : \mathbb{N} \vdash (m + \mathrm{s}(n)) : \mathbb{N}$	$\Gamma, m: \mathbb{N}, n: \mathbb{N}, r: \mathbb{N} \vdash s(r): \mathbb{N}$	$\Gamma, m: \mathbb{N}, n: \mathbb{N} \vdash \mathbf{s}(m+n) \equiv m + \mathbf{s}(n) : \mathbb{N}$	$\Gamma, m: \mathbb{N}, n: \mathbb{N}, a: \mathbf{s}(m) + n = \mathbf{s}(m+n) \vdash \mathbf{s}(\mathbf{s}(m) + n) \equiv \mathbf{s}(m) + \mathbf{s}(n) : \mathbb{N}$	0	$\Gamma, m: \mathbb{N}, n: \mathbb{N}, a: s(m) + n = s(m+n) \vdash ap_s(s(m)+n, s(m+n))(a)$	
$\overline{\Gamma \vdash \mathbb{N} \text{ type}} \qquad \overline{\Gamma \vdash \mathbb{N} \text{ type}} \qquad \overline{\Gamma \vdash \mathbb{N} \text{ type}} \qquad \overline{\Gamma, n : \mathbb{N} \vdash n : \mathbb{N}}^{o} \qquad \overline{\Gamma \vdash \mathbb{N} \text{ type}} \qquad \overline{\Gamma, n : \mathbb{N} \vdash n : \mathbb{N}}^{o} \qquad \overline{\Gamma \vdash \mathbb{N} \text{ type}} \qquad \overline{\Gamma, n : \mathbb{N} \vdash n : \mathbb{N}}^{o} \qquad \overline{\Gamma \vdash \mathbb{N} \text{ type}} \qquad \overline{\Gamma, n : \mathbb{N} \vdash n : \mathbb{N}}^{o} \qquad \overline{\Gamma \vdash \mathbb{N} \text{ type}} \qquad \overline{\Gamma, n : \mathbb{N} \vdash n : \mathbb{N}}^{o} \qquad \overline{\Gamma \vdash \mathbb{N} \text{ type}} \qquad \overline{\Gamma, n : \mathbb{N} \vdash n : \mathbb{N}}^{o} \qquad \overline{\Gamma, n : \mathbb{N} \vdash n : \mathbb{N}}^{o} \qquad \overline{\Gamma, n : \mathbb{N} \vdash n : \mathbb{N}}^{o} \qquad \overline{\Gamma, n : \mathbb{N} \vdash n : \mathbb{N}}^{o} \qquad \overline{\Gamma, n : \mathbb{N} \vdash n : \mathbb{N}}^{o} \qquad \overline{\Gamma, n : \mathbb{N} \vdash n : \mathbb{N}}^{o} \qquad \overline{\Gamma, n : \mathbb{N} \vdash n : \mathbb{N}}^{o} \qquad \overline{\Gamma, n : \mathbb{N} \vdash n : \mathbb{N}}^{o} \qquad \overline{\Gamma, n : \mathbb{N} \vdash n : \mathbb{N}}^{o} \qquad \overline{\Gamma, n : \mathbb{N} \vdash n : \mathbb{N}}^{o} \qquad \overline{\Gamma, n : \mathbb{N} \vdash n : \mathbb{N}}^{o} \qquad \overline{\Gamma, n : \mathbb{N} \vdash n : \mathbb{N}}^{o} \qquad \overline{\Gamma, n : \mathbb{N} \vdash n : \mathbb{N}}^{o} \qquad \overline{\Gamma, n : \mathbb{N} \vdash n : \mathbb{N}}^{o} \qquad \overline{\Gamma, n : \mathbb{N} \vdash n : \mathbb{N}}^{o} \qquad \overline{\Gamma, n : \mathbb{N} \vdash n : \mathbb{N}}^{o} \qquad \overline{\Gamma, n : \mathbb{N} \vdash n : \mathbb{N}}^{o} \qquad \overline{\Gamma, n : \mathbb{N} \vdash n : \mathbb{N}}^{o} \qquad \overline{\Gamma, n : \mathbb{N} \vdash n : \mathbb{N}}^{o} \qquad \overline{\Gamma, n : \mathbb{N} \vdash n : \mathbb{N}}^{o} \qquad \overline{\Gamma, n : \mathbb{N} \vdash n : \mathbb{N}}^{o} \qquad \overline{\Gamma, n : \mathbb{N} \vdash n : \mathbb{N}}^{o} \qquad \overline{\Gamma, n : \mathbb{N} \vdash n : \mathbb{N}}^{o} \qquad \overline{\Gamma, n : \mathbb{N} \vdash n : \mathbb{N}}^{o} \qquad \overline{\Gamma, n : \mathbb{N} \vdash n : \mathbb{N}}^{o} \qquad \overline{\Gamma, n : \mathbb{N} \vdash n : \mathbb{N}}^{o} \qquad \overline{\Gamma, n : \mathbb{N} \vdash n : \mathbb{N}}^{o} \qquad \overline{\Gamma, n : \mathbb{N}}^{o$	$\frac{\overline{S(r):\mathbb{N}}^{\text{ ev}}}{\overline{S(r):\mathbb{N}}}W \qquad \frac{\overline{\Gamma\vdash\mathbb{N}\text{ type}}}{\overline{\Gamma,m:\mathbb{N}\vdash m:\mathbb{N}}}\delta \qquad \frac{\overline{\Gamma\vdash\text{s}:\mathbb{N}\to\mathbb{N}}}{\overline{\Gamma,m:\mathbb{N}\vdash\text{s}(m):\mathbb{N}}}\text{ ev} \qquad \frac{\overline{\Gamma\vdash\text{s}:\mathbb{N}\to\mathbb{N}}}{\overline{\Gamma,m:\mathbb{N}\vdash\text{s}(m):\mathbb{N}}}\text{ ev}$	${\Gamma,m\!:\!\mathbb{N},n\!:\!\mathbb{N}\vdash\mathrm{s}(m+\mathrm{s}(n)):\mathbb{N}}$		$\frac{-S}{\Gamma, m: \mathbb{N}, n: \mathbb{N}, a: s(m) + n = s(m+n) \vdash s(m+n) \equiv m + s(n): \mathbb{N}} W T O$		$\Gamma, m : \mathbb{N}, a : s(m) + n = s(m+n) \; \vdash \; ap_{s}(s(m) + n, s(m+n))(a) \; : \; s(m) + s(n) = s(s(m+n))$			
$\overline{\Gamma \vdash \mathbb{N} \text{ type}} = \overline{\Gamma, m \colon \mathbb{N} \vdash \mathbf{s}(m) \colon \mathbb{N}}^{\text{eV}} = \overline{\Gamma, h \colon \mathbb{N} \vdash n \colon \mathbb{N}}^{\text{o}} = \overline{\Gamma, n \colon \mathbb{N} \vdash n \colon \mathbb{N}}^{\text{o}} = \overline{\Gamma, n \colon \mathbb{N} \vdash n \colon \mathbb{N}}^{\text{o}} = \overline{\Gamma, n \colon \mathbb{N} \vdash n \colon \mathbb{N}}^{\text{o}} = \overline{\Gamma, n \colon \mathbb{N} \vdash n \colon \mathbb{N}}^{\text{o}} = \overline{\Gamma, n \colon \mathbb{N} \vdash n \colon \mathbb{N}}^{\text{o}} = \overline{\Gamma, n \colon \mathbb{N} \vdash n \colon \mathbb{N}}^{\text{o}} = \overline{\Gamma, n \colon \mathbb{N} \vdash n \colon \mathbb{N}}^{\text{o}} = \overline{\Gamma, n \colon \mathbb{N} \vdash n \colon \mathbb{N}}^{\text{o}} = \overline{\Gamma, n \colon \mathbb{N} \vdash n \colon \mathbb{N}}^{\text{o}} = \overline{\Gamma, n \colon \mathbb{N} \vdash n \colon \mathbb{N}}^{\text{o}} = \overline{\Gamma, n \colon \mathbb{N} \vdash n \colon \mathbb{N}}^{\text{o}} = \overline{\Gamma, n \colon \mathbb{N} \vdash n \colon \mathbb{N}}^{\text{o}} = \overline{\Gamma, n \colon \mathbb{N} \vdash n \colon \mathbb{N}}^{\text{o}} = \overline{\Gamma, n \colon \mathbb{N} \vdash n \colon \mathbb{N}}^{\text{o}} = \overline{\Gamma, n \colon \mathbb{N} \vdash n \colon \mathbb{N}}^{\text{o}} = \overline{\Gamma, n \colon \mathbb{N} \vdash n \colon \mathbb{N}}^{\text{o}} = \overline{\Gamma, n \colon \mathbb{N} \vdash n \colon \mathbb{N}}^{\text{o}} = \overline{\Gamma, n \colon \mathbb{N} \vdash n \colon \mathbb{N}}^{\text{o}} = \overline{\Gamma, n \colon \mathbb{N} \vdash n \colon \mathbb{N}}^{\text{o}} = \overline{\Gamma, n \colon \mathbb{N} \vdash n \colon \mathbb{N}}^{\text{o}} = \overline{\Gamma, n \colon \mathbb{N} \vdash n \colon \mathbb{N}}^{\text{o}} = \overline{\Gamma, n \colon \mathbb{N} \vdash n \colon \mathbb{N}}^{\text{o}} = \overline{\Gamma, n \colon \mathbb{N} \vdash n \colon \mathbb{N}}^{\text{o}} = \overline{\Gamma, n \colon \mathbb{N} \vdash n \colon \mathbb{N}}^{\text{o}} = \overline{\Gamma, n \colon \mathbb{N} \vdash n \colon \mathbb{N}}^{\text{o}} = \overline{\Gamma, n \colon \mathbb{N} \vdash n \colon \mathbb{N}}^{\text{o}} = \overline{\Gamma, n \colon \mathbb{N} \vdash n \colon \mathbb{N}}^{\text{o}} = \overline{\Gamma, n \colon \mathbb{N} \vdash n \colon \mathbb{N}}^{\text{o}} = \overline{\Gamma, n \colon \mathbb{N} \vdash n \colon \mathbb{N}}^{\text{o}} = \overline{\Gamma, n \colon \mathbb{N}}^{\text$	$\overline{\Gamma,m\!:\!\mathbb{N}\vdash m\!:\!\mathbb{N}}^o \qquad \overline{\Gamma,m\!:\!\mathbb{N}\vdash s(m):\mathbb{N}}^{\operatorname{ev}} \qquad \overline{\Gamma,m\!:\!\mathbb{N}\vdash s(m):\mathbb{N}}^{\operatorname{ev}} \qquad \overline{\Gamma,m\!:\!\mathbb{N}\vdash s(m):\mathbb{N}}^{\operatorname{ev}}$	$\Gamma, m: \mathbb{N}, n: \mathbb{N} \vdash (s(m) + s(n) = s(m + s(n)))$ type				$\Gamma, m: \mathbb{N}, n: \mathbb{N}, a: \mathrm{s}(m) + n = \mathrm{s}(m+n) \ \vdash \ \mathrm{ap_s}(\mathrm{s}(m) + n, \mathrm{s}(m+n))(a) \ : \ \mathrm{s}(m) + \mathrm{s}(n) = \mathrm{s}(m+\mathrm{s}(n))$			
$ \frac{\Gamma,m\!:\!\mathbb{N},n\!:\!\mathbb{N}\vdash\mathrm{s}(m):\mathbb{N}}{\Gamma,m\!:\!\mathbb{N},n\!:\!\mathbb{N}\vdashn\!:\!\mathbb{N}} $	$\overline{\Gamma, m : \mathbb{N} \vdash m + 0 \equiv m : \mathbb{N}} \qquad \overline{\Gamma, m : \mathbb{N} \vdash s(m) \equiv s(m) + 0 : \mathbb{N}} \qquad \overline{\Gamma, m : \mathbb{N} \vdash \operatorname{refl}_{s(m)} : s(m) = s(m)} \qquad \overline{\Gamma, m : \mathbb{N} \vdash \operatorname{refl}_{s(m)} : s(m) = s(m)} \qquad \overline{\Gamma, m : \mathbb{N} \vdash \operatorname{refl}_{s(m)} : s(m) = s(m)} \qquad \overline{\Gamma, m : \mathbb{N} \vdash \operatorname{refl}_{s(m)} : s(m) = s(m)} \qquad \overline{\Gamma, m : \mathbb{N} \vdash \operatorname{refl}_{s(m)} : s(m) = s(m)} \qquad \overline{\Gamma, m : \mathbb{N} \vdash \operatorname{refl}_{s(m)} : s(m) = s(m)} \qquad \overline{\Gamma, m : \mathbb{N} \vdash \operatorname{refl}_{s(m)} : s(m) = s(m)} \qquad \overline{\Gamma, m : \mathbb{N} \vdash \operatorname{refl}_{s(m)} : s(m) = s(m)} \qquad \overline{\Gamma, m : \mathbb{N} \vdash \operatorname{refl}_{s(m)} : s(m) = s(m)} \qquad \overline{\Gamma, m : \mathbb{N} \vdash \operatorname{refl}_{s(m)} : s(m) = s(m)} \qquad \overline{\Gamma, m : \mathbb{N} \vdash \operatorname{refl}_{s(m)} : s(m) = s(m)} \qquad \overline{\Gamma, m : \mathbb{N} \vdash \operatorname{refl}_{s(m)} : s(m) = s(m)} \qquad \overline{\Gamma, m : \mathbb{N} \vdash \operatorname{refl}_{s(m)} : s(m) = s(m)} \qquad \overline{\Gamma, m : \mathbb{N} \vdash \operatorname{refl}_{s(m)} : s(m) = s(m)} \qquad \overline{\Gamma, m : \mathbb{N} \vdash \operatorname{refl}_{s(m)} : s(m) = s(m)} \qquad \overline{\Gamma, m : \mathbb{N} \vdash \operatorname{refl}_{s(m)} : s(m) = s(m)} \qquad \overline{\Gamma, m : \mathbb{N} \vdash \operatorname{refl}_{s(m)} : s(m) = s(m)} \qquad \overline{\Gamma, m : \mathbb{N} \vdash \operatorname{refl}_{s(m)} : s(m) = s(m)} \qquad \overline{\Gamma, m : \mathbb{N} \vdash \operatorname{refl}_{s(m)} : s(m) = s(m)} \qquad \overline{\Gamma, m : \mathbb{N} \vdash \operatorname{refl}_{s(m)} : s(m) = s(m)} \qquad \overline{\Gamma, m : \mathbb{N} \vdash \operatorname{refl}_{s(m)} : s(m) = s(m)} \qquad \overline{\Gamma, m : \mathbb{N} \vdash \operatorname{refl}_{s(m)} : s(m) = s(m)} \qquad \overline{\Gamma, m : \mathbb{N} \vdash \operatorname{refl}_{s(m)} : s(m) = s(m)} \qquad \overline{\Gamma, m : \mathbb{N} \vdash \operatorname{refl}_{s(m)} : s(m) = s(m)} \qquad \overline{\Gamma, m : \mathbb{N} \vdash \operatorname{refl}_{s(m)} : s(m) = s(m)} \qquad \overline{\Gamma, m : \mathbb{N} \vdash \operatorname{refl}_{s(m)} : s(m) = s(m)} \qquad \overline{\Gamma, m : \mathbb{N} \vdash \operatorname{refl}_{s(m)} : s(m) = s(m)} \qquad \overline{\Gamma, m : \mathbb{N} \vdash \operatorname{refl}_{s(m)} : s(m) = s(m)} \qquad \overline{\Gamma, m : \mathbb{N} \vdash \operatorname{refl}_{s(m)} : s(m) = s(m)} \qquad \overline{\Gamma, m : \mathbb{N} \vdash \operatorname{refl}_{s(m)} : s(m) = s(m)} \qquad \overline{\Gamma, m : \mathbb{N} \vdash \operatorname{refl}_{s(m)} : s(m) = s(m)} \qquad \overline{\Gamma, m : \mathbb{N} \vdash \operatorname{refl}_{s(m)} : s(m) = s(m)} \qquad \overline{\Gamma, m : \mathbb{N} \vdash \operatorname{refl}_{s(m)} : s(m) = s(m)} \qquad \overline{\Gamma, m : \mathbb{N} \vdash \operatorname{refl}_{s(m)} : s(m) = s(m)} \qquad \overline{\Gamma, m : \mathbb{N} \vdash \operatorname{refl}_{s(m)} : s(m) = s(m)} \qquad \overline{\Gamma, m : \mathbb{N} \vdash \operatorname{refl}_{s(m)} : s(m) = s(m)} \qquad \overline{\Gamma, m : \mathbb{N} \vdash \operatorname{refl}_{s(m)} : s(m) = s(m)} \qquad \overline{\Gamma, m : \mathbb{N} \vdash \operatorname{refl}_{s(m)} : s(m)} \qquad \overline{\Gamma, m : \mathbb{N} \vdash \operatorname{refl}_{s(m)} : s(m)} \qquad \overline{\Gamma, m : \mathbb{N} \vdash \operatorname{refl}_{s(m)} : s(m)} \qquad \overline{\Gamma, m : \mathbb{N} \vdash \operatorname{refl}_{s(m)} : s(m)} \qquad \overline{\Gamma, m : \mathbb{N} \vdash \operatorname{refl}_{s$	$\Gamma,m:\mathbb{N},n:\mathbb{N}\;\vdash\;\lambda a.\mathrm{ap_s}(\mathrm{s}(m)+n,\mathrm{s}(m+n))(a):\mathrm{s}(m)+n=\mathrm{s}(m+n)\to\mathrm{s}(m)+\mathrm{s}(n)=\mathrm{s}(m+\mathrm{s}(n))$							
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$\Gamma, m: \mathbb{N}, n: \mathbb{N} \vdash (s(m) + n = s(m+n))$ type	$\Gamma, m : \mathbb{N} \vdash \operatorname{refl}_{\mathbf{s}(m)} : \mathbf{s}(m) + 0 = \mathbf{s}(m+0)$	$\Gamma, m: \mathbb{N} \;\vdash\; \lambda n. \mathrm{ap}_{\mathrm{s}}(\mathrm{s}(m)+n,\mathrm{s}(m+n)) \;:\; \Pi_{(n:\mathbb{N})}\left(\mathrm{s}(m)+n=\mathrm{s}(m+n)\to \mathrm{s}(m)+\mathrm{s}(n)=\mathrm{s}(m+\mathrm{s}(n))\right)$							
			$\Gamma. \ m: \mathbb{N} \ \vdash \ \mathrm{ind}$	$_{\mathbb{N}}(\operatorname{refl}_{\mathbf{s}(m)}, \lambda n. \operatorname{ap}_{\mathbf{s}}(\mathbf{s}(m) + n, \mathbf{s}(m+n))) : \Pi_{(n:\mathbb{N})}(\mathbf{s}(m))$	$-n = \mathrm{s}(m+n)$				